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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/12, C07K 14/47, C12Q 1/68, G01N 33/68, C07K 16/18, A61K 31/70		A3	(11) International Publication Number: WO 99/64594
			(43) International Publication Date: 16 December 1999 (16.12.99)
(21) International Application Number: PCT/US99/13181			(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
(22) International Filing Date: 10 June 1999 (10.06.99)			
(30) Priority Data: 60/088,877 11 June 1998 (11.06.98) US 09/328,475 9 June 1999 (09.06.99) US			Published With international search report. (88) Date of publication of the international search report: 17 August 2000 (17.08.00)
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(54) Title: GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER			
(57) Abstract This invention relates to novel human genes, to proteins expressed by the genes, and to variants of the proteins. The invention also relates to diagnostic and therapeutic agents related to the genes and proteins, including probes, antisense constructs, and antibodies. The invention further relates to polynucleotides differentially expressed in prostate cancer.			

*(Referred to in PCT Gazette No. 22/2000, Section II) **(Referred to in PCT Gazette No. 41/2000, Section II)

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GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

FIELD OF THE INVENTION

This invention relates to the area of diagnosis, prognosis, and treatment
5 of cancer, tumor progression, hyperproliferative cell growth, and accompanying
physical and biological manifestations. More specifically, the invention includes
polynucleotides that are differentially regulated in prostatic disorders, such as metastatic
prostate cancer, localized prostate cancer, and benign prostate hyperplasia (BPH).

BACKGROUND OF THE INVENTION

10 Genes that are up- or down-regulated in cancer or tumor progression are
useful for therapeutic and diagnostic purposes. For example, detection of genes or gene
expression products up-regulated in hyperproliferative cells can be a predictive or
diagnostic marker of the onset or the progression of cancer. Early diagnosis can be
useful if the cancer, tumors, or hyperproliferating cells can be inhibited, removed, or
15 terminated to prevent metastasis or recurrence of cancerous growth. Such early warning
is of particular use to prostate cancer patients, where removal of the growth, tumor, or
cells is beneficial if the disease is confined to the prostate. There is a need in the art for
genes related to cancer and tumor progression.

SUMMARY OF THE INVENTION

20 The present invention provides methods and reagents for diagnosing
cancer, tumor progression, hyperproliferative cell growth, and accompanying biological
and physical manifestations. Reagents for such diagnostic kits include:

- (a) polynucleotides comprising a sequence capable of hybridizing to
one or more of SEQ ID NO:1-339 or complement thereof;
- 25 (b) polypeptides comprising the amino acid sequence encoded by
any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides comprising the amino
acid sequence of (b).

The methods of diagnosis of the present invention include both nucleic acid assays and immunoassays.

In another embodiment, the present invention provides both compositions and methods for treating or ameliorating cancer, tumor progression, hyperproliferative cell growth, and accompanying biological and physical manifestations. The compositions for treatment or amelioration include:

- (a) polynucleotides comprising the sequence capable of hybridizing to one or more of the sequences shown in SEQ ID NO:1-339 and complement thereof, including antisense, ribozyme and gene therapy nucleic acid constructs;
- 10 (b) polypeptides comprising the amino acid sequence encoded by any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides of polypeptides comprising the amino acid sequence (b).

Methods of treatment or amelioration include administering compositions of polynucleotides, polypeptides, antibodies, or combinations thereof and can be used

- (a) to inhibit translation and/or transcription;
 - (b) to inhibit biological activity;
 - (c) as a vaccine antigen; and
 - (d) as an immune system inducer.
- 20 Such compositions can be administered systemically or locally to the desired site.

In one embodiment, the present invention provides a composition comprising an isolated polynucleotide selected from the group consisting of

- (a) any one of SEQ ID NOs:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
 - (b) a polynucleotide that encodes a variant of the polypeptide encoded by (a); and
 - (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of any one of the sequences of (a).
- 30

Preferably, the nucleic acid obtained from the biological material of part (b) above is genomic DNA or mRNA. The nucleic acid can also be cDNA complementary to the mRNA.

Another embodiment of the invention is the use of the isolated
5 polynucleotides or parts thereof as diagnostic probes or as primers.

In another embodiment, the present invention provides a composition comprising a polypeptide, wherein said polypeptide is selected from the group consisting of:

(a) a polypeptide encoded by any one of SEQ ID Nos:2, 5, 49, 50,
10 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;

(b) a polypeptide encoded by full-length mRNA or cDNA corresponding to any one of SEQ ID NO:1-339; and

15 (c) a variant of the protein (a) or (b);

In certain preferred embodiments, the polynucleotide is operably linked to an expression control sequence. The invention further provides a host cell, including bacterial, yeast, insect and mammalian cells, transformed with the polynucleotide sequence. The invention also provides the full-length cDNA and the full length human
20 gene corresponding to the polynucleotide.

Protein and polypeptide compositions of the invention may further comprise a pharmaceutically acceptable carrier. Compositions comprising an antibody that specifically reacts with such protein or polypeptide are also provided by the present invention.

25 The invention further relates to a polypeptide or nucleic acid obtained by transforming a host cell with nucleic acid comprising at least one of SEQ ID NO:1-339, culturing the host cell, and recovering the replicated nucleic acid, the expressed RNA, and/or the expressed polypeptide.

Brief Description of the Figures

30 Figure 1 provides the open reading frame for clone SL 195.

Figure 2 provides the open reading frame for clone SL 197.

Figure 3 provides the immunohistochemistry staining results for clone SL 5 expression in a variety of normal and tumor tissues.

Detailed Description of the Invention

Genes that are up- or down-regulated in cancer or tumor progression are useful for therapeutic and diagnostic purposes. For example, a diagnostic assay to determine the stage of the disease also is useful in tailoring treatment of aggressive versus more mild cancer or tumor progression. The polynucleotide sequences and encoded polypeptides of the present invention are useful for these diagnostic or prognostic purposes.

Further, modulation of genes or gene expression products that are mis-regulated can be used to treat or ameliorate cancer, tumor progression, hyperproliferative cell growth, and the accompanying physical and biological manifestations. For example, the polynucleotide sequences provided herein as SEQ ID NO:1-339, can be used to construct the following polynucleotide and polypeptide compositions that are useful for treatment: antisense; ribozymes; antibodies; vaccine antigens; and immune system inducers, to induce dendritic cells, for example.

Identified herein are polynucleotide sequences that are upregulated in a cancer cell line, more specifically in a prostate cancer cell line. Thus, the present invention relates to methods and reagents for diagnosis, and to methods and compositions for treatment.

I. Use of Polynucleotides Having a Sequence of One or More of SEQ ID NO:1-339 to Obtain Full-Length cDNA and Full-Length Human Gene and Promoter Region

Full-length cDNA molecules comprising the disclosed sequences are obtained as follows. The polynucleotide or a portion thereof comprising at least 12, 15, 18, or 20 nucleotides is used as a hybridization probe to detect hybridizing members of a cDNA library using probe design methods, cloning methods, and clone selection techniques as described in U.S. Patent No. 5,654,173, "Secreted Proteins and Polynucleotides Encoding Them," incorporated herein by reference. Libraries of cDNA are made from selected tissues, such as normal or tumor tissue, or from tissues of a

mammal treated with, for example, a pharmaceutical agent. Preferably, the tissue is the same as that used to generate the polynucleotides, as both the polynucleotides and the cDNA represent expressed genes. Most preferably, the cDNA library is made from the biological material described herein in the Examples. Alternatively, many cDNA
5 libraries are available commercially. (Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989).

Members of the library that are larger than the polynucleotide, and preferably that contain the whole sequence of the native message, are obtained. In order
10 to confirm that the entire cDNA has been obtained, RNA protection experiments are performed as follows. Hybridization of a full-length cDNA to an mRNA will protect the RNA from RNase degradation. If the cDNA is not full length, then the portions of the mRNA that are not hybridized will be subject to RNase degradation. This is assayed, as is known in the art, by changes in electrophoretic mobility on
15 polyacrylamide gels, or by detection of released monoribonucleotides. Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989). In order to obtain additional sequences 5' to the end of a partial cDNA, 5' RACE (PCR Protocols: A Guide to Methods and Applications (Academic Press, Inc. 1990)) is performed.

20 Genomic DNA is isolated using polynucleotides in a manner similar to the isolation of full-length cDNAs. Briefly, the polynucleotides, or portions thereof, are used as probes to libraries of genomic DNA. Preferably, the library is obtained from the cell type that was used to generate the polynucleotides, but this is not essential. Most preferably, the genomic DNA is obtained from the biological material described
25 herein in the Examples. Such libraries may be in vectors suitable for carrying large segments of a genome, such as P1 or YAC, as described in detail in Sambrook *et al.*, 9.4-9.30. In addition, genomic sequences can be isolated from human BAC libraries, which are commercially available from Research Genetics, Inc., Huntsville, Alabama, USA, for example. In order to obtain additional 5' or 3' sequences, chromosome
30 walking is performed, as described in Sambrook *et al.*, such that adjacent and

overlapping fragments of genomic DNA are isolated. These are mapped and pieced together, as is known in the art, using restriction digestion enzymes and DNA ligase.

Using the polynucleotides sequences of the invention, corresponding full length genes can be isolated using both classical and PCR methods to construct and
5 probe cDNA libraries. Using either method, Northern blots, preferably, are performed on a number of cell types to determine which cell lines express the gene of interest at the highest rate.

Classical methods of constructing cDNA libraries are taught in Sambrook et al., supra. With these methods, cDNA can be produced from mRNA and
10 inserted into viral or expression vectors. Typically, libraries of mRNA comprising poly(A) tails can be produced with poly(T) primers. Similarly, cDNA libraries can be produced using the instant sequences as primers.

PCR methods are used to amplify the members of a cDNA library that comprise the desired insert. In this case, the desired insert will contain sequence from
15 the full length cDNA that corresponds to the instant ESTs. Such PCR methods include gene trapping and RACE methods. Gruber *et al.*, PCT WO 95/04745 and Gruber *et al.*, U.S. Pat. No. 5,500,356. Kits are commercially available to perform gene trapping experiments from, for example, Life Technologies, Gaithersburg, Maryland, USA. PCT Pub. No. WO 97/19110. (Apte and Siebert, *Biotechniques* 15:890-893, 1993; Edwards
20 *et al.*, *Nuc. Acids Res.* 19:5227-5232, 1991).

The promoter region of a gene generally is located 5' to the initiation site for RNA polymerase II, and can be obtained by performing 5' RACE using a primer from the coding region of the gene. Alternatively, the cDNA can be used as a probe for the genomic sequence, and the region 5' to the coding region is identified by "walking
25 up." If the gene is highly expressed or differentially expressed, the promoter from the gene may be of use in a regulatory construct for a heterologous gene.

Once the full-length cDNA or gene is obtained, DNA encoding variants can be prepared by site-directed mutagenesis, described in detail in Sambrook *et al.*, 15.3-15.63. The choice of codon or nucleotide to be replaced can be based on disclosure
30 herein on optional changes in amino acids to achieve altered protein structure and/or function.

As an alternative method to obtaining DNA or RNA from a biological material, nucleic acid comprising nucleotides having the sequence of one or more polynucleotides of the invention can be synthesized. Thus, the invention encompasses nucleic acid molecules ranging in length from 15 nucleotides (corresponding to at least 5 15 contiguous nucleotides of one of SEQ ID NO:1-339) up to a maximum length suitable for one or more biological manipulations, including replication and expression, of the nucleic acid molecule. The invention includes but is not limited to (a) nucleic acid having the size of a full gene, and comprising at least one of SEQ ID NO:1-339; (b) the nucleic acid of (a) also comprising at least one additional gene, operably linked 10 to permit expression of a fusion protein; (c) an expression vector comprising (a) or (b); (d) a plasmid comprising (a) or (b); and (e) a recombinant viral particle comprising (a) or (b).

The sequence of a nucleic acid comprising at least 15 contiguous nucleotides of at least any one of SEQ ID NO:1-339, preferably the entire sequence of 15 at least any one of SEQ ID NO:1-339, is not limited and can be any sequence of A, T, G, and/or C (for DNA) and A, U, G, and/or C (for RNA) or modified bases thereof, including inosine and pseudouridine. The choice of sequence will depend on the desired function and can be dictated by coding regions desired, the intron-like regions desired, and the regulatory regions desired.

20 Where the entire sequence of any one of SEQ ID NO:1-339 is within the nucleic acid, the nucleic acid obtained is referred to herein as a polynucleotide comprising the sequence of any one of SEQ ID NO:1-339.

II. Expression of Polypeptide Encoded by Full-Length cDNA or Full-Length Gene

The polynucleotide, the corresponding cDNA, or the full-length gene is 25 used to express the partial or complete gene product. Appropriate polynucleotide constructs are purified using standard recombinant DNA techniques as described in, for example, Sambrook *et al.*, (1989) *Molecular Cloning: A Laboratory Manual*, 2nd ed. (Cold Spring Harbor Press, Cold Spring Harbor, New York). The polypeptides encoded by the polynucleotides are expressed in any expression system, including, for example,

bacterial, yeast, insect, amphibian and mammalian systems. Suitable vectors and host cells are described in U.S. Patent No. 5,654,173.

Bacteria. Expression systems in bacteria include those described in Chang *et al.*, *Nature* (1978) 275:615, Goeddel *et al.*, *Nature* (1979) 281:544, Goeddel *et al.*, *Nucleic Acids Res.* (1980) 8:4057; EP 0 036,776, U.S. Patent No. 4,551,433, DeBoer *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1983) 80:21-25, and Siebenlist *et al.*, *Cell* (1980) 20:269.

Yeast. Expression systems in yeast include those described in Hinnen *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1978) 75:1929; Ito *et al.*, *J. Bacteriol.* (1983) 153:163; Kurtz *et al.*, *Mol. Cell. Biol.* (1986) 6:142; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Gleeson *et al.*, *J. Gen. Microbiol.* (1986) 132:3459, Roggenkamp *et al.*, *Mol. Gen. Genet.* (1986) 202:302; Das *et al.*, *J. Bacteriol.* (1984) 158:1165; De Louvencourt *et al.*, *J. Bacteriol.* (1983) 154:737, Van den Berg *et al.*, *Bio/Technology* (1990) 8:135; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Cregg *et al.*, *Mol. Cell. Biol.* (1985) 5:3376, U.S. Patent Nos. 4,837,148 and 4,929,555; Beach and Nurse, *Nature* (1981) 300:706; Davidow *et al.*, *Curr. Genet.* (1985) 10:380, Gaillardin *et al.*, *Curr. Genet.* (1985) 10:49, Ballance *et al.*, *Biochem. Biophys. Res. Commun.* (1983) 112:284-289; Tilburn *et al.*, *Gene* (1983) 26:205-221, Yelton *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1984) 81:1470-1474. Kelly and Hynes, *EMBO J.* (1985) 4:475479; EP 0 244,234, and WO 91/00357.

Insect Cells. Expression of heterologous genes in insects is accomplished as described in U.S. Patent No. 4,745,051, Friesen *et al.* (1986) "The Regulation of Baculovirus Gene Expression" in: *The Molecular Biology Of Baculoviruses* (W. Doerfler, ed.), EP 0 127,839, EP 0 155,476, and Vlak *et al.*, *J. Gen. Virol.* (1988) 69:765-776, Miller *et al.*, *Ann. Rev. Microbiol.* (1988) 42:177, Carbonell *et al.*, *Gene* (1988) 73:409, Maeda *et al.*, *Nature* (1985) 315:592-594, Lebacqz-Verheyden *et al.*, *Mol. Cell. Biol.* (1988) 8:3129; Smith *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1985) 82:8404, Miyajima *et al.*, *Gene* (1987) 58:273; and Martin *et al.*, *DNA* (1988) 7:99. Numerous baculoviral strains and variants and corresponding permissive insect host cells from hosts are described in Luckow *et al.*, *Bio/Technology*

(1988) 6:47-55, Miller *et al.*, Generic Engineering (Setlow, J.K. *et al.* eds.), Vol. 8 (Plenum Publishing, 1986), pp. 277-279, and Maeda *et al.*, *Nature*, (1985) 315:592-594.

Mammalian Cells. Mammalian expression is accomplished as described in Dijkema *et al.*, *EMBO J.* (1985) 4:761, Gorman *et al.*, *Proc. Natl. Acad. Sci. (USA)* 5 (1982) 79:6777, Boshart *et al.*, *Cell* (1985) 41:521 and U.S. Patent No. 4,399,216. Other features of mammalian expression are facilitated as described in Ham and Wallace. *Meth. Enz.* (1979) 58:44, Barnes and Sato. *Anal. Biochem.* (1980) 102:255, U.S. Patent Nos. 4,767,704, 4,657,866, 4,927,762, 4,560,655, WO 90/103430, WO 87/00195, and U.S. RE 30,985.

10 Polynucleotide molecules comprising the polynucleotide sequence are propagated by placing the molecule in a vector. Viral and non-viral vectors are used, including plasmids. The choice of plasmid will depend on the type of cell in which propagation is desired and the purpose of propagation. Certain vectors are useful for amplifying and making large amounts of the desired DNA sequence. Other vectors are
15 suitable for expression in cells in culture. Still other vectors are suitable for transfer and expression in cells in a whole animal or person. The choice of appropriate vector is well within the skill of the art. Many such vectors are available commercially. The polynucleotide is inserted into a vector typically by means of DNA ligase attachment to a cleaved restriction enzyme site in the vector. Alternatively, the desired nucleotide
20 sequence may be inserted by homologous recombination in vivo. Typically this is accomplished by attaching regions of homology to the vector on the flanks of the desired nucleotide sequence. Regions of homology are added by ligation of oligonucleotides, or by polymerase chain reaction using primers comprising both the region of homology and a portion of the desired nucleotide sequence, for example.

25 Polynucleotides are linked to regulatory sequences as appropriate to obtain the desired expression properties. These may include promoters (attached either at the 5' end of the sense strand or at the 3' end of the antisense strand), enhancers, terminators, operators, repressors, and inducers. The promoters may be regulated or constitutive. In some situations it may be desirable to use conditionally active
30 promoters, such as tissue-specific or developmental stage-specific promoters. These are

linked to the desired nucleotide sequence using the techniques described above for linkage to vectors. Any techniques known in the art may be used.

When any of the above host cells, or other appropriate host cells or organisms, are used to replicate and/or express the polynucleotides or nucleic acids of the invention, the resulting replicated nucleic acid, RNA, expressed protein or polypeptide, is within the scope of the invention as a product of the host cell or organism. The product is recovered by any appropriate means known in the art.

Once the gene corresponding to the polypeptide is identified, its expression can be regulated in the cell to which the gene is native. For example, an endogenous gene of a cell can be regulated by an exogenous regulatory sequence as disclosed in U.S. Patent No. 5,641,670, "Protein Production and Protein Delivery."

Ribozymes

Trans-cleaving catalytic RNAs (ribozymes) are RNA molecules possessing endoribonuclease activity. Ribozymes are specifically designed for a particular target, and the target message must contain a specific nucleotide sequence. They are engineered to cleave any RNA species site-specifically in the background of cellular RNA. The cleavage event renders the mRNA unstable and prevents protein expression. Importantly, ribozymes can be used to inhibit expression of a gene of unknown function for the purpose of determining its function in an in vitro or in vivo context, by detecting the phenotypic effect.

One commonly used ribozyme motif is the hammerhead, for which the substrate sequence requirements are minimal. Design of the hammerhead ribozyme is disclosed in Usman *et al.*, *Current Opin. Struct. Biol.* (1996) 6:527-533. Usman also discusses the therapeutic uses of ribozymes. Ribozymes can also be prepared and used as described in Long *et al.*, *FASEB J.* (1993) 7:25; Symons, *Ann. Rev. Biochem.* (1992) 61:641; Perrotta *et al.*, *Biochem.* (1992) 31:16-17; Ojwang *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1992) 89:10802-10806; and U.S. Patent No. 5,254,678. Ribozyme cleavage of HIV-I RNA is described in U.S. Patent No. 5,144,019; methods of cleaving RNA using ribozymes is described in U.S. Patent No. 5,116,742; and methods for increasing the specificity of ribozymes are described in U.S. Patent No. 5,225,337 and Koizumi *et al.*,

Nucleic Acid Res. (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hammerhead structure are also described by Koizumi *et al.*, *Nucleic Acids Res.* (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hairpin structure are described by Chowrira and Burke, *Nucleic Acids Res.* (1992) 20:2835. Ribozymes can
5 also be made by rolling transcription as described in Daubendiek and Kool, *Nat. Biotechnol.* (1997) 15(3):273-277.

The hybridizing region of the ribozyme may be modified or may be prepared as a branched structure as described in Horn and Urdea, *Nucleic Acids Res.* (1989) 17:6959-67. The basic structure of the ribozymes may also be chemically
10 altered in ways familiar to those skilled in the art, and chemically synthesized ribozymes can be administered as synthetic oligonucleotide derivatives modified by monomeric units. In a therapeutic context, liposome mediated delivery of ribozymes improves cellular uptake, as described in Birikh *et al.*, *Eur. J. Biochem.* (1997) 245:1-16.

15 Therapeutic and functional genomic applications of ribozymes proceed beginning with knowledge of a portion of the coding sequence of the gene to be inhibited. Thus, for many genes, a polynucleotide sequence as disclosed herein provides adequate sequence for constructing an effective ribozyme. A target cleavage site is selected in the target sequence, and a ribozyme is constructed based on the 5' and
20 3' nucleotide sequences that flank the cleavage site. Retroviral vectors are engineered to express monomeric and multimeric hammerhead ribozymes targeting the mRNA of the target coding sequence. These monomeric and multimeric ribozymes are tested in vitro for an ability to cleave the target mRNA. A cell line is stably transduced with the retroviral vectors expressing the ribozymes, and the transduction is confirmed by
25 Northern blot analysis and reverse-transcription polymerase chain reaction (RT-PCR). The cells are screened for inactivation of the target mRNA by such indicators as reduction of expression of disease markers or reduction of the gene product of the target mRNA.

Antisense

Antisense nucleic acids are designed to specifically bind to RNA, resulting in the formation of RNA-DNA or RNA-RNA hybrids, with an arrest of DNA replication, reverse transcription or messenger RNA translation. Antisense polynucleotides based on a selected sequence can interfere with expression of the corresponding gene. Antisense polynucleotides are typically generated within the cell by expression from antisense constructs that contain the antisense EST strand as the transcribed strand. Antisense polynucleotides will bind and/or interfere with the translation of the corresponding mRNA. The expression products of control cells and cells treated with the antisense construct are compared to detect the protein product of the gene corresponding to the polynucleotide. The protein is isolated and identified using routine biochemical methods.

Antisense therapy for a variety of cancers is in clinical phase and has been discussed extensively in the literature. Reed reviewed antisense therapy directed at the Bcl-2 gene in tumors; gene transfer-mediated overexpression of Bcl-2 in tumor cell lines conferred resistance to many types of cancer drugs. (Reed, J.C., *N.C.I.* (1997) 89:988-990). The potential for clinical development of antisense inhibitors of *ras* is discussed by Cowser, L.M., *Anti-Cancer Drug Design* (1997) 12:359-371. Additional important antisense targets include leukemia (Geurtz, A.M., *Anti-Cancer Drug Design* (1997) 12:341-358); human C-ref kinase (Monia, B.P., *Anti-Cancer Drug Design* (1997) 12:327-339); and protein kinase C (McGraw *et al.*, *Anti-Cancer Drug Design* (1997) 12:315-326).

Given the extensive background literature and clinical experience in antisense therapy, one skilled in the art can use selected polynucleotides of the invention as additional potential therapeutics. The choice of polynucleotide can be narrowed by first testing them for binding to "hot spot" regions of the genome of cancerous cells. If a polynucleotide is identified as binding to a "hot spot", testing the polynucleotide as an antisense compound in the corresponding cancer cells clearly is warranted.

Ogunbiyi *et al.*, *Gastroenterology* (1997) 113(3):761-766 describe prognostic use of allelic loss in colon cancer; Barks *et al.*, *Genes, Chromosomes, and*

Cancer (1997) 19(4):278-285 describe increased chromosome copy number detected by FISH in malignant melanoma; Nishizake *et al.*, *Genes, Chromosomes, and Cancer* (1997) 19(4):267-272 describe genetic alterations in primary breast cancer and their metastases and direct comparison using modified comparative genome hybridization; 5 and Elo *et al.*, *Cancer Research* (1997) 57(16):3356-3359 disclose that loss of heterozygosity at 16z24.1-q24.2 is significantly associated with metastatic and aggressive behavior of prostate cancer.

Dominant Negative Mutations

Dominant negative mutations are readily generated for corresponding 10 proteins that are active as homomultimers. A mutant polypeptide will interact with wild-type polypeptides (made from the other allele) and form a non-functional multimer. Thus, a mutation is in a substrate-binding domain, a catalytic domain, or a cellular localization domain. Preferably, the mutant polypeptide will be overproduced. Point mutations are made that have such an effect. In addition, fusion of different 15 polypeptides of various lengths to the terminus of a protein can yield dominant negative mutants. General strategies are available for making dominant negative mutants. See Herskowitz, *Nature* (1987) 329:219-222. Such a technique can be used for creating a loss of function mutation, which is useful for determining the function of a protein.

Identification of Secreted and Membrane-Bound Polypeptides

20 Both secreted and membrane-bound polypeptides of the present invention are of interest. For example, levels of secreted polypeptides can be assayed conveniently in body fluids, such as blood, urine, prostatic fluid and semen. Membrane-bound polypeptides are useful for constructing vaccine antigens or inducing an immune response. Such antigens would comprise all or part of the extracellular 25 region of the membrane-bound polypeptides.

Because both secreted and membrane-bound polypeptides comprise a fragment of contiguous hydrophobic amino acids, hydrophobicity predicting algorithms can be used to identify such polypeptides.

A signal sequence is usually encoded by both secreted and membrane- 30 bound polypeptide genes to direct a polypeptide to the surface of the cell. The signal

sequence usually comprises a stretch of hydrophobic residues. Such signal sequences can fold into helical structures.

Membrane-bound polypeptides typically comprise at least one transmembrane region that possesses a stretch of hydrophobic amino acids that can transverse the membrane. Some transmembrane regions also exhibit a helical structure.

Hydrophobic fragments within a polypeptide can be identified by using computer algorithms. Such algorithms include Hopp & Woods, Proc. Natl. Acad. Sci. USA 78: 3824-3828 (1981); Kyte & Doolittle, J. Mol. Biol. 157: 105-132 (1982); and RAOAR algorithm, Degli Esposti *et al.*, Eur. J. Biochem. 190: 207-219 (1990).

Another method of identifying secreted and membrane-bound polypeptides is to translate the present polynucleotides. SEQ ID NO:1-339, in all six frames and determine if at least 8 contiguous hydrophobic amino acids are present. Those translated polypeptides with at least 8; more typically, 10; even more typically, 12 contiguous hydrophobic amino acids are considered to be either a putative secreted or membrane bound polypeptide. Hydrophobic amino acids include alanine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, threonine, tryptophan, tyrosine, and valine.

Putative secreted and/or membrane-bound polypeptides are encoded by the sequences of the following clones: SL-5, SL-6, SL-9, SL-11, SL-13, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, and SL-177.

Construction of Polypeptides of the Invention and Variants Thereof

The polypeptides of the invention include those encoded by the disclosed polynucleotides. These polypeptides can also be encoded by nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the disclosed polynucleotides. Thus, the invention includes within its scope nucleic acids comprising polynucleotides encoding a protein or polypeptide expressed by a polynucleotide having the sequence of any one of SEQ ID NO:1-339. Also within the scope of the invention are variants; variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The amino acid substitutions can be conservative amino acid substitutions or substitutions to

eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/hydrophilicity, and/or steric bulk of the amino acid substituted. For example, substitutions between the following groups are conservative: Gly/Ala, Val/Ile/Leu, Asp/Glu, Lys/Arg, Asn/Gln, Ser/Cys, Thr, and Phe/Trp/Tyr.

Cysteine-depleted muteins are variants within the scope of the invention. These variants can be constructed according to methods disclosed in U.S. Patent No. 4,959,314, "Cysteine-Depleted Muteins of Biologically Active Proteins." The patent discloses how to substitute other amino acids for cysteines, and how to determine biological activity and effect of the substitution. Such methods are suitable for proteins according to this invention that have cysteine residues suitable for such substitutions, for example to eliminate disulfide bond formation.

The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

The invention encompasses polynucleotide sequences having at least 65% sequence identity to any one of SEQ ID NOs:1-339 as determined by the Smith-Waterman homology search algorithm as implemented in MSPRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty of 12, and gap extension penalty of 1.

Use of the Polynucleotides as Probes, in Mapping, and in Tissue Profiling

Probes

Polynucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence of a polynucleotide of SEQ ID NO:1-339 are used for a variety of purposes, including identification of human chromosomes and determining transcription levels.

The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known

methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations which are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide should provide a detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences.

In a non-limiting example, commercial programs are available for identifying regions of chromosomes commonly associated with disease, such as cancer. Polynucleotides of the invention can be used to probe these regions. For example, if through profile searching a polynucleotide is identified as corresponding to a gene encoding a kinase, its ability to bind to a cancer-related chromosomal region will suggest its role as a kinase in one or more stages of tumor cell development/growth. Although some experimentation would be required to elucidate the role, the polynucleotide constitutes a new material for isolating a specific protein that has potential for developing a cancer diagnostic or therapeutic.

Nucleotide probes are used to detect expression of a gene corresponding to the polynucleotide. For example, in Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization is quantitated to determine relative amounts of expression, for example under a particular condition. Probes are also used to detect products of amplification by polymerase chain reaction. The products of the reaction are hybridized to the probe and hybrids are detected. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used in vivo for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels may be used such as chromophores, fluors, and enzymes.

Expression of specific mRNA can vary in different cell types and can be tissue specific. This variation of mRNA levels in different cell types can be exploited with nucleic acid probe assays to determine tissue types. For example, PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes substantially

identical or complementary to polynucleotides listed in the Sequence Listing can determine the presence or absence of cDNA or mRNA related to the polynucleotides of the invention.

Examples of a nucleotide hybridization assay are described in Urdea *et al.*, PCT WO92/02526 and Urdea *et al.*, U.S. Patent No. 5,124,246, both incorporated
5 herein by reference. The references describe an example of a sandwich nucleotide hybridization assay.

Alternatively, the Polymerase Chain Reaction (PCR) is another means for detecting small amounts of target nucleic acids, as described in Mullis *et al.*, *Meth.*
10 *Enzymol.* (1987) 155:335-350; U.S. Patent No. 4,683,195; and U.S. Patent No. 4,683,202, all incorporated herein by reference. Two primer polynucleotides nucleotides hybridize with the target nucleic acids and are used to prime the reaction. The primers may be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides,
15 they need not hybridize to them or the complements. A thermostable polymerase creates copies of target nucleic acids from the primers using the original target nucleic acids as a template. After a large amount of target nucleic acids is generated by the polymerase, it is detected by methods such as Southern blots. When using the Southern blot method, the labeled probe will hybridize to a polynucleotide of the Sequence
20 Listing or complement.

Furthermore, mRNA or cDNA can be detected by traditional blotting techniques described in Sambrook *et al.*, "Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989). mRNA or cDNA generated from mRNA using a polymerase enzyme can be purified and separated using gel
25 electrophoresis. The nucleic acids on the gel are then blotted onto a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe and then washed to remove any unhybridized probe. Next, the duplexes containing the labeled probe are detected. Typically, the probe is labeled with radioactivity.

Mapping

Polynucleotides of the present invention are used to identify a chromosome on which the corresponding gene resides. Using fluorescence in situ hybridization (FISH) on normal metaphase spreads, comparative genomic hybridization
5 allows total genome assessment of changes in relative copy number of DNA sequences. See Schwartz and Samad, *Current Opinions in Biotechnology* (1994) 8:70-74; Kallioniemi *et al.*, *Seminars in Cancer Biology* (1993) 4:41-46; Valdes and Tagle, *Methods in Molecular Biology* (1997) 68:1, Boultonwood, ed., Human Press, Totowa, NJ.

Preparations of human metaphase chromosomes are prepared using
10 standard cytogenetic techniques from human primary tissues or cell lines. Nucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence shown in the Sequence Listing are used to identify the corresponding chromosome. The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known
15 methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations that are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide-related gene provides a
20 detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with non-EST coding sequences.

Polynucleotides are mapped to particular chromosomes using, for example, radiation hybrids or chromosome-specific hybrid panels. See Leach *et al.*, *Advances in Genetics*, (1995) 33:63-99; Walter *et al.*, *Nature Genetics* (1994) 7:22-28;
25 Walter and Goodfellow, *Trends in Genetics* (1992) 9:352. Such mapping can be useful in identifying the function of the polynucleotide-related gene by its proximity to other genes with known function. Function can also be assigned to the related gene when particular syndromes or diseases map to the same chromosome.

Tissue Profiling

30 The polynucleotides of the present invention can be used to determine the tissue type from which a given sample is derived. For example, a metastatic lesion

is identified by its developmental organ or tissue source by identifying the expression of a particular marker of that organ or tissue. If a polynucleotide is expressed only in a specific tissue type, and a metastatic lesion is found to express that polynucleotide, then the developmental source of the lesion has been identified. Expression of a particular polynucleotide is assayed by detection of either the corresponding mRNA or the protein product. Immunological methods, such as antibody staining, are used to detect a particular protein product. Hybridization methods may be used to detect particular mRNA species, including but not limited to in situ hybridization and Northern blotting.

Use of Polymorphisms

A polynucleotide will be useful in forensics, genetic analysis, mapping, and diagnostic applications if the corresponding region of a gene is polymorphic in the human population. A particular polymorphic form of the polynucleotide may be used to either identify a sample as deriving from a suspect or rule out the possibility that the sample derives from the suspect. Any means for detecting a polymorphism in a gene are used, including but not limited to electrophoresis of protein polymorphic variants, differential sensitivity to restriction enzyme cleavage, and hybridization to an allele-specific probe.

Use of Polynucleotides to Raise Antibodies

Expression products of a polynucleotide, the corresponding mRNA or cDNA, or the corresponding complete gene are prepared and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polynucleotide-encoded polypeptide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

Immunogens for raising antibodies are prepared by mixing the polypeptides encoded by the polynucleotide of the present invention with adjuvants. Alternatively, polypeptides are made as fusion proteins to larger immunogenic proteins. Polypeptides are also covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally.

subcutaneously, or intramuscularly. Immunogens are administered to experimental animals such as rabbits, sheep, and mice, to generate antibodies. Optionally, the animal spleen cells are isolated and fused with myeloma cells to form hybridomas which secrete monoclonal antibodies. Such methods are well known in the art. According to
5 another method known in the art, the polynucleotide is administered directly, such as by intramuscular injection, and expressed in vivo. The expressed protein generates a variety of protein-specific immune responses, including production of antibodies, comparable to administration of the protein.

Preparations of polyclonal and monoclonal antibodies specific for
10 polynucleotide-encoded proteins and polypeptides are made using standard methods known in the art. The antibodies specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically, at least 6, 8, 10, or 12 contiguous amino acids are required to form an epitope. However, epitopes which involve non-contiguous amino acids may require more, for
15 example at least 15, 25, or 50 amino acids. A short sequence of a polynucleotide may then be unsuitable for use as an epitope to raise antibodies for identifying the corresponding novel protein, because of the potential for cross-reactivity with a known protein. However, the antibodies may be useful for other purposes, particularly if they identify common structural features of a known protein and a novel polypeptide
20 encoded by a polynucleotide of the invention.

Antibodies that specifically bind to human polynucleotide-encoded polypeptides should provide a detection signal at least 5-, 10-, or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. Preferably, antibodies that specifically bind polypeptides do
25 not detect other proteins in immunochemical assays and can immunoprecipitate EST-encoded proteins from solution. For such immunoassays, any type of samples can be used, including tissue, organs, cells, urine, blood, prostatic fluid or semen.

Of interest are antibodies to the secreted polypeptides encoded by the present polynucleotide sequences, SEQ ID NO:1-339. Antibodies to secreted
30 polypeptides can be used to test body fluids, such as blood, urine, prostatic fluid and semen.

To test for the presence of serum antibodies to the polypeptide in a human population, human antibodies are purified by methods well known in the art. Preferably, the antibodies are affinity purified by passing antiserum over a column to which a protein, polypeptide, or fusion protein is bound. The bound antibodies can then
5 be eluted from the column, for example using a buffer with a high salt concentration.

In addition to the antibodies discussed above, genetically engineered antibody derivatives are made, such as single chain antibodies or humanized antibodies.

Antibodies to the polypeptides encoded by one or more of SEQ ID NO:1-339 also are contemplated for therapeutic compositions and uses. For example,
10 antibodies directed to membrane-bound polypeptides that are up-regulated in cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations can be constructed. Antibodies can provide a useful therapeutic in inhibiting cell growth or inducing an immune reaction to cancer, tumor, or hyperproliferating cells. Typically, such antibodies are directed the extracellular
15 regions of the membrane-bound polypeptide. The borders of such regions can be determined by identifying the location of the hydrophobic transmembrane fragment(s) in the encoded polypeptides of the present invention.

Exemplary antibodies were prepared using two sequences from clone SL-5: H₂N-CGPRLPSFPCPTHEPSTGQLSK-CONH₂ and H₂N-CKDSQGLSDFKR-
20 NSRTTTRRSYKCCONH₂. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry was performed on a variety of tumor tissues and corresponding normal tissue. The results are shown in Figure 3, and discussed in the Examples. These polypeptides are useful for detecting a higher level of expression of clone SL-5 in tumor tissues.

25 Use of Polynucleotides to Construct Arrays for Diagnostics

The present polynucleotide sequences and gene products are useful for determining the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations. Specifically, the polynucleotides and encoded polypeptides of the instant invention can be utilized to

determine the occurrence of prostatic disorders, such as BPH or localized prostate cancer.

A number of prostatic disorders exist, including adenocarcinoma, BPH, histologic prostate cancer, prostatic intraepithelial neoplasia, clinical prostate cancer, 5 incidental prostate cancer, and localized prostate cancer. BPH is a common prostatic disorder in men which becomes clinically manifest usually after age fifty. In BPH, hyperplastic growth of prostatic cells in the periurethral glandular tissue in the central zone of the prostate gland cause an enlarged prostate which can compress or elongate the urethra and produce symptoms of urethral obstruction that may progress to urinary 10 retention or to a constellation of symptoms known as prostatism. A host of physical manifestations can accompany prostatic disorders including: impotency, reduced urinary flow, hesitancy in initiating voiding, postvoid dribbling, a sensation of incomplete bladder emptying, and development of bladder or high urinary tract infections.

15 To determine the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, the levels of polynucleotides and/or encoded polypeptides of the present invention in a sample are compared to the levels in a normal control of body tissues, cells, organs, or fluids. The normal control can include a pool of cells from a particular organ or tissue 20 or tissues and/or cells from throughout the body. Either the immunoassays described above or the nucleic acid assays described below can be used for such measurements.

Any observed difference between the sample and normal control can indicate the occurrence of disease or disorder. Typically, if the levels of the polynucleotides and the encoded polypeptides of the present invention are higher than 25 those found in the normal control, the results indicate the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations.

In addition, the present polynucleotides can be useful to diagnose the severity as well as the occurrence of cancer, tumor progression, hyperproliferative 30 growth, and/or accompanying biological or physical manifestations, including prostatic disorders. For example, the greater the difference observed in the sample versus the

normal control of the present polynucleotides or encoded polypeptides, the greater the severity of the disorder, in particular, when higher levels as compared to a normal control are observed.

The present polynucleotides, as shown in SEQ ID NO:1-339, were
5 expressed at higher levels in a prostate cancer cell line versus a normal prostate epithelial cell line.

Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotide sequences in a sample. This technology can be used as a diagnostic and as a tool to test for differential expression to determine function of
10 an encoded protein.

To create arrays, polynucleotide probes are spotted onto a substrate in a two-dimensional matrix or array. Samples of polynucleotides can be labeled and then hybridized to the probes. Double stranded polynucleotides, comprising the labeled sample polynucleotides bound to probe polynucleotides, can be detected once the
15 unbound portion of the sample is washed away.

The probe polynucleotides can be spotted on substrates including glass, nitrocellulose, etc. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions, such as hydrophobic interactions. The sample polynucleotides can be labeled using radioactive labels, fluorophors, etc.

20 Techniques for constructing arrays and methods of using these arrays are described in EP No. 0 799 897; PCT No. WO 97/29212; PCT No. WO 97/27317; EP No. 0 785 280; PCT No. WO 97/02357; U.S. Pat. No. 5,593,839; U.S. Pat. No. 5,578,832; EP No. 0 728 520; U.S. Pat. No. 5,599,695; EP No. 0 721 016; U.S. Pat. No. 5,556,752; PCT No. WO 95/22058; and U.S. Pat. No. 5,631,734.

25 Further, arrays can be used to examine differential expression of genes and can be used to determine gene function. For example, arrays of the instant polynucleotide sequences can be used to determine if any of the EST sequences are differentially expressed between normal cells and cancer cells, for example. High expression of a particular message in a cancer cell, which is not observed in a
30 corresponding normal cell, can indicate a cancer specific protein.

Differential Expression

The present invention also provides a method to identify abnormal or diseased tissue in a human. For polynucleotides corresponding to profiles of protein families as described above, the choice of tissue may be dictated by the putative
5 biological function. The expression of a gene corresponding to a specific polynucleotide is compared between a first tissue that is suspected of being diseased and a second, normal tissue of the human. The normal tissue is any tissue of the human, especially those that express the polynucleotide-related gene including, but not limited to, brain, thymus, testis, heart, prostate, placenta, spleen, small intestine, skeletal
10 muscle, pancreas, and the mucosal lining of the colon.

The polynucleotide-related genes in the two tissues are compared by any means known in the art. For example, the two genes are sequenced, and the sequence of the gene in the tissue suspected of being diseased is compared with the gene sequence in the normal tissue. The polynucleotide-related genes, or portions thereof, in the two
15 tissues are amplified, for example using nucleotide primers based on the nucleotide sequence shown in the Sequence Listing, using the polymerase chain reaction. The amplified genes or portions of genes are hybridized to nucleotide probes selected from the same nucleotide sequence shown in the Sequence Listing. A difference in the nucleotide sequence of the polynucleotide-related gene in the tissue suspected of being
20 diseased compared with the normal nucleotide sequence suggests a role of the polynucleotide-encoded proteins in the disease, and provides a lead for preparing a therapeutic agent. The nucleotide probes are labeled by a variety of methods, such as radiolabeling, biotinylation, or labeling with fluorescent or chemiluminescent tags, and detected by standard methods known in the art.

25 Alternatively, polynucleotide-related mRNA in the two tissues is compared. PolyA⁺ RNA is isolated from the two tissues as is known in the art. For example, one of skill in the art can readily determine differences in the size or amount of polynucleotide-related mRNA transcripts between the two tissues using Northern blots and nucleotide probes selected from the nucleotide sequence shown in the
30 Sequence Listing. Increased or decreased expression of an polynucleotide-related mRNA in a tissue sample suspected of being diseased, compared with the expression of

the same polynucleotide-related mRNA in a normal tissue, suggests that the expressed protein has a role in the disease, and also provides a lead for preparing a therapeutic agent.

Any method for analyzing proteins is used to compare two
5 polynucleotide-encoded proteins from matched samples. The sizes of the proteins in the two tissues are compared, for example, using antibodies of the present invention to detect polynucleotide-encoded proteins in Western blots of protein extracts from the two tissues. Other changes, such as expression levels and subcellular localization, can also be detected immunologically, using antibodies to the corresponding protein. A
10 higher or lower level of polynucleotide-encoded protein expression in a tissue suspected of being diseased, compared with the same polynucleotide-encoded protein expression level in a normal tissue, is indicative that the expressed protein has a role in the disease, and provides another lead for preparing a therapeutic agent.

Similarly, comparison of polynucleotide gene sequences or of
15 polynucleotide gene expression products, e.g., mRNA and protein, between a human tissue that is suspected of being diseased and a normal tissue of a human, are used to follow disease progression or remission in the human. Such comparisons of polynucleotide-related genes, mRNA, or protein are made as described above.

For example, increased or decreased expression of the polynucleotide-
20 related gene in the tissue suspected of being neoplastic can indicate the presence of neoplastic cells in the tissue. The degree of increased expression of the polynucleotide gene in the neoplastic tissue relative to expression of the gene in normal tissue, or differences in the amount of increased expression of the polynucleotide gene in the neoplastic tissue over time, is used to assess the progression of the neoplasia in that
25 tissue or to monitor the response of the neoplastic tissue to a therapeutic protocol over time. The expression pattern of any two cell types can be compared, such as low and high metastatic tumor cell lines, or cells from tissue which have and have not been exposed to a therapeutic agent.

Screening for Peptide Analogs and Antagonists

Polypeptides encoded by the instant polynucleotides and corresponding full length genes can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides.

5 Such binding partners can be useful in treating cancer, tumor progression, hyperproliferative cell growth, and/or accompanying biological or physical manifestations. For example, peptides or other compounds that are capable of binding or interacting with membrane-bound polypeptides encoded by one or more of SEQ ID NO:1-339, can be useful as a therapeutic. Also, peptides or other compounds capable of
10 altering the conformation of any of the encoded polypeptides by one or more of SEQ ID NO:1-339 can inhibit biological activity and be useful as a therapeutic.

A library of peptides may be synthesized following the methods disclosed in U.S. Pat. No. 5,010,175, and in PCT WO91/17823.

Peptide agonists or antagonists are screened using any available method,
15 such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The methods described herein are presently preferred. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the
20 native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide may require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide may be added in concentrations on the order of the native concentration.

25 The end results of such screening and experimentation will be at least one novel polypeptide binding partner, such as a receptor, encoded by a cDNA polynucleotide or gene of the invention, and at least one peptide agonist or antagonist of the novel binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells
30 that possess the receptor as a result of genetic engineering. Further, if the novel receptor shares biologically important characteristics with a known receptor,

information about agonist/antagonist binding may help in developing improved agonists/antagonists of the known receptor.

Therapeutics, whether polynucleotide or polypeptide or small molecule, can be tested, for example, in the mouse tumor assay described in Pei *et al.*, Mol. Endo.
5 11: 433-441 (1997).

Other models for testing polynucleotides, polypeptides, antibodies, or small molecules useful for treatment include: animal models and cell lines disclosed in Bosland. *Encyclopedia of Cancer*, Volume II, pages 1283 to 1296 (1997) by Academic Press. Other useful cell lines are described in Brothman, *Encyclopedia of Cancer*,
10 Volume II, pages 1303 to 1313 (1997) by Academic Press

Pharmaceutical Compositions and Therapeutic Uses

Pharmaceutical compositions can comprise polypeptides, antibodies, or polynucleotides of the claimed invention. The pharmaceutical compositions will comprise a therapeutically effective amount of either polypeptides, antibodies, or
15 polynucleotides of the claimed invention.

The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also
20 include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation can be determined by
25 routine experimentation and is within the judgment of the clinician. Specifically, the compositions of the present invention can be used to treat, ameliorate, modulate, or prevent cancer, tumor progression, hyperproliferative cell growth and/or accompanying biological or physical manifestations, including prostatic disorders.

For purposes of the present invention, an effective dose will be from about 0.01 mg/ kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the polynucleotide, polypeptide or antibody compositions in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which may be administered without undue toxicity. Suitable carriers may be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art.

Pharmaceutically acceptable salts can be used therein, for example, mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in *Remington's Pharmaceutical Sciences* (Mack Pub. Co., N.J. 1991).

Pharmaceutically acceptable carriers in therapeutic compositions may contain liquids such as water, saline, glycerol and ethanol. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier.

Delivery Methods

Once formulated, the polynucleotide compositions of the invention can be (1) administered directly to the subject; (2) delivered ex vivo, to cells derived from the subject; or (3) delivered in vitro for expression of recombinant proteins.

Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly, or delivered to the interstitial space of a tissue. The compositions can also be administered into a tumor or lesion. Other modes of administration include oral and pulmonary
5 administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment may be a single dose schedule or a multiple dose schedule.

Methods for the ex vivo delivery and reimplantation of transformed cells into a subject are known in the art and described in e.g., International Publication No.
10 WO 93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoietic, lymph cells, macrophages, dendritic cells, or tumor cells.

Generally, delivery of nucleic acids for both ex vivo and in vitro applications can be accomplished by, for example, dextran-mediated transfection,
15 calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

If a polynucleotide-related gene correlates with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder may be amenable to
20 treatment by administration of a therapeutic agent based on the polynucleotide or corresponding polypeptide.

Preparation of antisense polypeptides is discussed above. Neoplasias that are treated with the antisense composition include, but are not limited to, cervical cancers, melanomas, colorectal adenocarcinomas, Wilms' tumor, retinoblastoma,
25 sarcomas, myosarcomas, lung carcinomas, leukemias, such as chronic myelogenous leukemia, promyelocytic leukemia, monocytic leukemia, and myeloid leukemia, and lymphomas, such as histiocytic lymphoma. Proliferative disorders that are treated with the therapeutic composition include disorders such as anhydric hereditary ectodermal dysplasia, congenital alveolar dysplasia, epithelial dysplasia of the cervix, fibrous
30 dysplasia of bone, and mammary dysplasia. Hyperplasias, for example, endometrial, adrenal, breast, prostate, or thyroid hyperplasias or pseudoepitheliomatous hyperplasia

of the skin, are treated with antisense therapeutic compositions. Even in disorders in which mutations in the corresponding gene are not implicated, downregulation or inhibition of gene expression can have therapeutic application. For example, decreasing gene expression can help to suppress tumors in which enhanced expression of the gene is implicated.

Both the dose of the antisense composition and the means of administration are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. Administration of the therapeutic antisense agents of the invention includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. Preferably, the therapeutic antisense composition contains an expression construct comprising a promoter and a polynucleotide segment of at least 12, 22, 25, 30, or 35 contiguous nucleotides of the antisense strand. Within the expression construct, the polynucleotide segment is located downstream from the promoter, and transcription of the polynucleotide segment initiates at the promoter.

Various methods are used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively, arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the composition directly into the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

Receptor-mediated targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues is also used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends in Biotechnol.* (1993) 11:202-205; Chiou *et al.*, (1994) *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A.

Wolff, ed.); Wu & Wu, *J. Biol. Chem.* (1988) 263:621-24; Wu *et al.*, *J. Biol. Chem.* (1994) 269:542-46; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) 87:3655-59; Wu *et al.*, *J. Biol. Chem.* (1991) 266:339-42. Preferably, receptor-mediated targeted delivery of therapeutic compositions containing antibodies of the invention is used to
5 deliver the antibodies to specific tissue.

Therapeutic compositions containing antisense subgenomic polynucleotides are administered in a range of about 100 ng to about 200 mg of polynucleotides for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1 µg to about 2 mg, about 5 µg to about
10 500 µg, and about 20 µg to about 100 µg of polynucleotides can also be used during a gene therapy protocol. Factors such as method of action and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides. Where greater expression is desired over a larger area of tissue, larger amounts of EST antisense subgenomic
15 polynucleotides or the same amounts readministered in a successive protocol of administrations, or several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. A more complete description of gene therapy vectors,
20 especially retroviral vectors, is contained in U.S. Serial No. 08/869,309, which is expressly incorporated herein, and in section G below.

For genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in U.S. Patent No. 5,654,173, incorporated herein by reference. Therapeutic agents also include antibodies
25 to proteins and polypeptides, as described in U.S. Patent No. 5,654,173.

Gene Therapy

The therapeutic polynucleotides and polypeptides of the present invention may be utilized in gene delivery vehicles. The gene delivery vehicle may be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) 1:51-64;
30 Kimura, *Human Gene Therapy* (1994) 5:845-852; Connelly, *Human Gene Therapy*

(1995) 1:185-193; and Kaplitt, *Nature Genetics* (1994) 6:148-153). Gene therapy vehicles for delivery of constructs including a coding sequence of a therapeutic of the invention can be administered either locally or systemically. These constructs can utilize viral or non-viral vector approaches. Expression of such coding sequences can
5 be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence can be either constitutive or regulated.

The present invention can employ recombinant retroviruses which are constructed to carry or express a selected nucleic acid molecule of interest. Retrovirus vectors that can be employed include those described in EP 0 415 731; WO 90/07936;
10 WO 94/03622; WO 93/25698; WO 93/25234; U.S. Patent No. 5, 219,740; WO 93/11230; WO 93/10218; Vile and Hart, *Cancer Res.* (1993) 53:3860-3864; Vile and Hart, *Cancer Res.* (1993) 53:962-967; Ram et al., *Cancer Res.* (1993) 53:83-88; Takamiya et al., *J. Neurosci. Res.* (1992) 33:493-503; Baba et al., *J. Neurosurg.* (1993) 79:729-735; U.S. Patent no. 4,777,127; GB Patent No. 2,200,651; and EP 0 345 242.
15 Preferred recombinant retroviruses include those described in WO 91/02805.

Packaging cell lines suitable for use with the above-described retroviral vector constructs may be readily prepared (see PCT publications WO 95/30763 and WO 92/05266), and used to create producer cell lines (also termed vector cell lines) for the production of recombinant vector particles. Within particularly preferred embodiments
20 of the invention, packaging cell lines are made from human (such as HT1080 cells) or mink parent cell lines, thereby allowing production of recombinant retroviruses that can survive inactivation in human serum.

The present invention also employs alphavirus-based vectors that can function as gene delivery vehicles. Such vectors can be constructed from a wide variety
25 of alphaviruses, including, for example, Sindbis virus vectors, Semliki forest virus (ATCC VR-67; ATCC VR-1247), Ross River virus (ATCC VR-373; ATCC VR-1246) and Venezuelan equine encephalitis virus (ATCC VR-923; ATCC VR-1250; ATCC VR 1249; ATCC VR-532). Representative examples of such vector systems include those described in U.S. Patent Nos. 5,091,309; 5,217,879; and 5,185,440; and PCT
30 Publication Nos. WO 92/10578; WO 94/21792; WO 95/27069; WO 95/27044; and WO 95/07994.

Gene delivery vehicles of the present invention can also employ parvovirus such as adeno-associated virus (AAV) vectors. Representative examples include the AAV vectors disclosed by Srivastava in WO 93/09239, Samulski et al., *J. Vir.* (1989) 63:3822-3828; Mendelson et al., *Virol.* (1988) 166:154-165; and Flotte et al., *PNAS* (1993) 90:10613-10617.

Representative examples of adenoviral vectors include those described by Berkner, *Biotechniques* (1988) 6:616-627; Rosenfeld et al., *Science* (1991) 252:431-434; WO 93/19191; Kolls et al., *PNAS* (1994) 91:215-219; Kass-Eisler et al., *PNAS* (1993) 90:11498-11502; Guzman et al., *Circulation* (1993) 88:2838-2848; Guzman et al., *Cir. Res.* (1993) 73:1202-1207; Zabner et al., *Cell* (1993) 75:207-216; Li et al., *Hum. Gene Ther.* (1993) 4:403-409; Cailaud et al., *Eur. J. Neurosci.* (1993) 5:1287-1291; Vincent et al., *Nat. Genet.* (1993) 5:130-134; Jaffe et al., *Nat. Genet.* (1992) 1:372-378; and Levrero et al., *Gene* (1991) 101:195-202. Exemplary adenoviral gene therapy vectors employable in this invention also include those described in WO 94/12649, WO 93/03769; WO 93/19191; WO 94/28938; WO 95/11984 and WO 95/00655. Administration of DNA linked to killed adenovirus as described in Curiel, *Hum. Gene Ther.* (1992) 3:147-154 may be employed.

Other gene delivery vehicles and methods may be employed, including polycationic condensed DNA linked or unlinked to killed adenovirus alone, for example Curiel, *Hum. Gene Ther.* (1992) 3:147-154; ligand linked DNA, for example see Wu, *J. Biol. Chem.* (1989) 264:16985-16987; eukaryotic cell delivery vehicles cells, for example see U.S. Serial No. 08/240,030, filed May 9, 1994, and U.S. Serial No. 08/404,796; deposition of photopolymerized hydrogel materials; hand-held gene transfer particle gun, as described in U.S. Patent No. 5,149,655; ionizing radiation as described in U.S. Patent No. 5,206,152 and in WO92/11033; nucleic charge neutralization or fusion with cell membranes. Additional approaches are described in Philip, *Mol. Cell Biol.* (1994) 14:2411-2418, and in Woffendin, *Proc. Natl. Acad. Sci.* (1994) 91:1581-1585.

Naked DNA may also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and U.S. Patent No. 5,580,859.

Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) 91(24):11581-11585.

Computer-Related Embodiments

5 In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (*e.g.*, as a collection of polynucleotide molecules), or in electronic form (*e.g.*, as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the
10 polynucleotides can be used in a variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of
15 the same or similar type that is not substantially affected by disease).

The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form comprises an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains
20 the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed) as between, for example, a cancerous cell and a normal cell. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in
25 greater detail below.

The polynucleotide libraries of the subject invention generally comprise sequence information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of SEQ ID NOs:1-339. By plurality is meant at least 2, usually at least 3 and can include up to all of SEQ ID NOs:1-339. The length
30 and number of polynucleotides in the library will vary with the nature of the library,

e.g., if the library is an oligonucleotide array, a cDNA array, a computer database of the sequence information, etc.

Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture,
5 other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.*, the nucleic acid sequences of any of the polynucleotides of SEQ ID
10 NOs:1-339, can be recorded on computer readable media, *e.g.*, any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage
15 media. One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information. "Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in the art. Any convenient data storage structure can be chosen, based on the means used to access
20 the stored information. A variety of data processor programs and formats can be used for storage, *e.g.*, word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of the libraries of the invention can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc.*,
25 including, but not limited to, for example, search program software, *etc.*).

By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the BLAST (Altschul et al., *supra.*) and BLAZE (Brutlag et al. *Comp. Chem.* (1993) 17:203) search algorithms on a
30 Sybase system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.

As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU), input
5 means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above, or a memory access means that can access such a manufacture.

10 "Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif, or expression levels of a polynucleotide in a sample, with the stored sequence information. Search means can be used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly
15 known and commercially available, *e.g.*, MacPattern (EMBL), BLASTN and BLASTX (NCBI). A "target sequence" can be any polynucleotide or amino acid sequence of six or more contiguous nucleotides or two or more amino acids, preferably from about 10 to 100 amino acids or from about 30 to 300 nt. A variety of comparing means can be used to accomplish comparison of sequence information from a sample (*e.g.*, to analyze
20 target sequences, target motifs, or relative expression levels) with the data storage means. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention to accomplish comparison of target sequences and motifs. Computer programs to analyze expression levels in a sample and in controls are
25 also known in the art.

A "target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif, or on consensus sequences of regulatory or active sites. There are a variety of
30 target motifs known in the art. Protein target motifs include, but are not limited to, enzyme active sites and signal sequences. Nucleic acid target motifs include, but are

not limited to, hairpin structures, promoter sequences and other expression elements such as binding sites for transcription factors.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks the relative expression levels of different polynucleotides. Such presentation provides a skilled artisan with a ranking of relative expression levels to determine a gene expression profile..

As discussed above, the "library" of the invention also encompasses biochemical libraries of the polynucleotides of SEQ ID NOs:1-339, *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of SEQ ID NOs:1-339 is represented on the array. By array is meant a an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of skill in the art. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the where the polypeptides of the library will represent at least a portion of the polypeptides encoded by SEQ ID NOs:1-339.

The present invention will now be illustrated by reference to the following examples which set forth particularly advantageous embodiments. However, it should be noted that these embodiments are illustrative and are not to be construed as restricting the invention in any way.

EXAMPLES

EXAMPLE 1

ISOLATION OF THE POLYNUCLEOTIDES

cDNA libraries were prepared from PrEC, normal human prostate
5 epithelial cells, and LNCaP, a cell line derived from human lymph node metastasized
prostate cancer. PrEC cells are available from Clonetics, San Diego, California, U.S.A.
LNCaP cells are available from the ATCC, Manassas, Virginia, U.S.A.

Using a PCR technique and reagents available from Clontech, Palo Alto,
California, USA (CLONTECH PCR-Select™), mRNA up-regulated in LNCaP was
10 captured and amplified. The captured polynucleotide inserts were inserted in the
pCR2.1 vector, available from Invitrogen, Carlsbad, California, U.S.A. The vectors
with the inserts were transformed into *E. coli* cells.

EXAMPLE 2

CONFIRMATION OF DIFFERENTIAL DISPLAY

15 Ten clones were chosen at random, and up-regulation of the sequences of
these clone inserts in LNCaP versus PrEC cells was confirmed by Northern blot. Dot
blots were performed on 168 clones and up-regulation was confirmed.

Further, sequencing of the clones showed that prostate specific antigen
(PSA) and prostate specific membrane antigen (PSMA) sequences were isolated by the
20 process described in Example 1. A good correlation between increased serum PSA
levels and prostate tumors has been observed. PSMA, a cell surface antigen, is another
observed marker for prostate cancer. See Bosland, Encyclopedia of Cancer, Volume II,
pages 1283-1296 (1997), Academic Press. Thus, the data confirm that up-regulated
mRNA characteristic of gene expression in prostate cancer was cloned by the method of
25 Example 1.

EXAMPLE 3

POLYNUCLEOTIDE SEQUENCES

The sequence results are shown in SEQ ID NO:1-339. For the sequencing experiments, each clone was named SL-1 to SL-209. Inserts from some of the clones were sequenced more than once. Each sequence was designated a unique combination of two names. This unique combination is shown in Table 1 in columns 2 and 3, denoted as "Sequence Name" and "Other Seq Name."

Table 1 indicates all the sequences that correspond to each clone. Thus, all the sequences corresponding to clone SL-3, for example, are grouped together in Table 1.

Clones also were assigned cluster numbers. See column 4 of Table 1. Clones with the same cluster number generally comprise sequence derived from the same mRNA transcripts.

The last column of Table 1 indicates the nearest neighbor as determined by an alignment to sequences in a publicly available database.

A consensus for the sequence of each clone can be constructed by aligning the corresponding sequences or reverse complements thereof. Table 1 lists the names of all the sequences that correspond to each clone, and Table 2 shows the specific sequence that corresponds to each unique combination of Sequence Name and/or "Other Seq. Name."

The entire insert of some clones may not be represented by the sequences presented in Table 2. For example, the 5' and 3' ends of a clone insert may have been sequenced, but the sequences do not overlap. Additional sequence corresponding to the clone insert can be isolated and determined by constructing probes or primers from the sequences presented in Table 2 and a library of mRNA or cDNA from a prostate cell or prostate cancer cell line using the methods described above.

EXAMPLE 4

RESULTS OF PUBLIC DATABASE SEARCH

Both the nucleotide sequence and translations of masked sequences shown in the Sequence Listing were aligned with individual sequences that were publicly available. Similarity with individual sequences is used to determine the activity of the polypeptides encoded by genes corresponding to the sequences referred to in Table 2.

The sequences in SEQ ID NO:1-333 first were masked to remove the pCR2.1 vector sequences. Masking was performed by aligning the pCR2.1 sequences with each of SEQ ID NO:1-333 using the BLASTN program. Any sequence that produced an alignment with a score of less than 0.1 was masked.

A BLASTN vs. Genbank search was performed using the masked sequences with search parameters of greater than 99% overlap, 99% identity, and a p value of less than 1×10^{-40} and this resulted in discard of sequences. Sequences from this search also were discarded if the inclusive parameters were met, but the sequence was ribosomal or vector-derived.

The resulting sequences from the previous search were classified into three groups (1, 2 and 3 below) and searched in a BLASTX vs. NRP (non-redundant proteins) database search: (1) unknown (no hits in the Genbank search), (2) weak similarity (greater than 45% identity and p value of less than 1×10^{-5}), and (3) high similarity (greater than 60% overlap, greater than 80% identity, and p value less than 1×10^{-5}). This search resulted in discard of sequences as having greater than 99% overlap, greater than 99% identity, and p value of less than 1×10^{-40} .

The remaining sequences were classified as unknown (no hits), weak similarity, and high similarity (parameters as above). Two searches were performed on this set of sequences. First, a BLAST vs. EST database search resulted in discard of sequences with greater than 99% overlap, greater than 99% similarity and a p value of less than 1×10^{-40} ; sequences with a p value of less than 1×10^{-65} when compared to a database sequence of human origin were also excluded. Second, a BLASTN vs. Patent

GeneSeq database resulted in discard of sequences with greater than 99% identity; p value less than 1×10^{-10} ; greater than 99% overlap.

The masked sequences were translated in all six reading frames to determine the best alignment with the individual sequences. These amino acid
5 sequences and nucleotide sequences are referred, generally, as query sequences, which are aligned with the individual sequences.

Query and individual sequences were aligned using the BLAST programs, available over the world wide web.

Table 2 shows the results of the alignments. Table 2 refers to each
10 sequence by its Sequence Name and/or "Other Seq. Name" and includes the accession numbers and descriptions of nearest neighbors from the Genbank and Non-Redundant Protein searches.

The activity of the polypeptide encoded by the sequences referred to in Table 2 is expected to be the same or similar to the nearest neighbor reported in Table 2.
15 The accession number of the nearest neighbor is reported, providing a reference to the activities exhibited by the nearest neighbor. The search program and database used for the alignment also are indicated as well as a calculation of the p value.

Full length sequences or fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full
20 length sequence corresponding to sequence referred to in Table 2. Although full length sequences can be obtained from the cell lines described above, the nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences of those referred to in Table 2.

The sequences referred to in Table 2 and the translations thereof may be
25 human homologs of known genes of other species or novel allelic variants of known human genes. In such cases, these new human sequences may be suitable as diagnostics, prognostics, or therapeutics. As diagnostics, the human sequences exhibit greater specificity in detecting and differentiating human cell lines and types than homologs of other species. The human polypeptides are less likely to be immunogenic
30 when administered to humans than homologs from other species. Further, on

administration to humans, the encoded polypeptides can show greater specificity or can be better regulated by other human proteins than are homologs from other species.

In the preferred embodiments of the invention, the sequences shown in SEQ ID NO:1-339 consisting of the unmasked regions should be considered as the
5 source of probes and primers, as these sequences are most representative of the distinguishing portions of these polynucleotides.

Generally, the masking itself does not influence the search results as shown in Table 2, except to eliminate multiple "hits" based on similarity to repetitive regions common to more than one polypeptide.

10

EXAMPLE 5

ANALYSIS OF CLONES SL-5, SL-9, SL-68, AND SL-173

Clone SL-5 (SEQ ID NO:14 and 334)

By Northern Blot, a 4.1 kb band was observed in expressed in normal prostate, testis, and lymphoblastic leukemia. It was also expressed in the cell lines
15 LNCaP, and MDA PCa 2A and 2B (metastatic prostate cells into bone, androgen sensitive). Additional sequence corresponding to SEQ ID NO:14 is disclosed in SEQ ID NO:334.

Expression of SL-5 was investigated in normal and tumor tissues using immunohistochemistry. Antibody was prepared using two sequences from clone SL-5:
20 H₂N-CGPRLPSFPCPTHEPSTGQLSK-CONH₂ and H₂N-CKDSQGLSDFKRNSRTTTR-RSYKCCONH₂. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry (IHC) was performed on a variety of tumor tissues and corresponding normal tissue. The methods used were those described for the Manual IHC Protocol using BioGenex Reagents and Zymed AEC Solution, as known in
25 the art. As shown in Figure 3, SL-5 was detected in the following tumor tissue: adrenal, ovary, breast, colon, prostate, uterus, cervix, kidney, pancreas, liver, stomach, lymphoma, seminoma, thyroid, melanoma, basal cell carcinoma, and other tumor tissues. Where comparative normal tissue was available, expression in the

corresponding normal tissue was lower than in the tumor tissue. Thus, SL-5 is a useful marker for cancer tissue including prostate.

Clone SL-9 (SEQ ID NO:18)

By Northern Blot, sequences from SL-9 were specifically expressed in
5 normal spleen and normal peripheral blood leukocyte. Expression of the SL-9 sequences was observed also in promyelocytic leukemia HL-60, chronic myelogenous leukemia K-562, lymphoblastic leukemia MOLT-4, Burkitt's lymphoma, and Raji cancer cell lines by Northern Blot.

Clone SL-173 (SEQ ID NO:153 and 154)

10 By Northern Blot, SL173 was found in every cancer cell line tested. Sequence from SL-173 has similarity to and may be a human homologue of the rat tumor transforming gene, which was found in the pituitary and described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997) and Pei, J. Biol. Chem. 273(9): 5219-5225 (1998). When the rat tumor transforming gene was injected in NIH3T3cells, the cells became
15 transformed and were able to form a tumor when injected into mice. (Pei *et al.*, Mol. Endo. supra).

Clone SL-68 (SEQ ID NO:218 and 219)

Two transcripts, 2.6kb and 4.3kb, were observed in normal spleen, thymus and peripheral blood leukocytes, as well as in promyelocytic leukemia, chronic
20 myelogenous leukemia and lymphoblastic leukemia. The 4.3kb transcript was seen in normal testis, colon, Hela cell S3, colorectal adenocarcinoma and melanoma. The 2.6kb band was found in the following prostate cell lines: PC-3 (metastatic to bone, androgen insensitive); DU-145 (metastatic to brain, androgen insensitive); FFpz (primary cells derived from normal prostate epithelium); Ffca (primary cells derived
25 from Gleason Grade 3 prostate cancer epithelium); and WO-CA (primary cells derived from Gleason Grade 4 prostate cancer epithelium). However, higher expression was observed in LNCaP, MDA PCa 2A, HPV-7 and HPV-10. A 9.5kb transcript was also observed in MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:335.

Clone SL69 (SEQ ID NO:220 and 221)

A weak 2.6kb band was observed in normal testis as well as in chronic myelogenous leukemia and lymphoblastic leukemia. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:336.

5

Clone SL86 (SEQ ID NO:242 and 243)

The sequence was expressed in normal prostate (2.7kb and 1.1kb) and testis (1.1kb). Low expression was observed in a cancer cell line blot using the cell lines described above. 1.1kb and 2.7kb transcripts were observed in the cell lines
10 LNCaP, and MDA PCa 2a and 2b (metastatic prostate cells into bone, androgen sensitive), and weak 1.1kb transcript was seen in HPV-7 (immortalized normal prostate cells) and HPV-10 (immortalized prostate cancer cells). Additional sequence corresponding to this clone is disclosed in SEQ ID NO:337.

15

Clone SL195 (SEQ ID NO:288 and 289)

The sequence was expressed in normal prostate as a 1.9kb transcript, and the same transcript also observed in all cell lines in the cancer cell line blot described above. It was more heavily expressed in HeLa cell S3 and chronic myelogenous leukemia, and was expressed in all prostate cell lines. Additional sequence
20 corresponding to this clone is disclosed in SEQ ID NO:338.

Clone SL197 (SEQ ID NO:292 and 293)

Two transcripts, 2.4kb and 4kb, were observed in normal prostate and testis. Two very weak 2.4kb signals were observed in HeLa cell S3 and chronic
25 myelogenous leukemia. The 2.4kb transcript was expressed in all prostate cell lines. A 4kb transcript was found in LNCaP, MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:339.

Those skilled in the art will recognize, or be able to ascertain, using not
30 more than routine experimentation, many equivalents to the specific embodiments of

the invention described herein. Such specific embodiments and equivalents are intended to be encompassed by the following claims.

All patents, published patent applications and publications cited herein are incorporated by reference as if set forth fully herein.

TABLE I

PATENT

Clone #	Sequence Name	Other Seq Name	Clone # Cluster #	Nearest Neighbor If Available
SL-001	SL001 SL001M13	19sl1	SL-001	S60754 (VNTR locus DXZ4)
SL-002	SL002	20sl2	SL-002	L07935 HUMVNTRA
SL-003	SL003	21sl3	SL-003	AB006625 - KIAA0287 gene
	SL003	35-sl3-1m13		
	SL003	35-sl3-1t7		
	SL003	37-sl3-1m13		
	SL003	39-sl3-1m13		
SL-004	SL004 SL004M13	22sl4	SL-004	
SL-005	SL005 SL005	23sl5 30sl11b	SL-005	
SL-006	SL006 SL006M13	24sl6	SL-006	cosmid genomic clone
SL-007	SL007	25sl7	SL-003	AB006625-KIAA0287
	SL007	28-sl7-1m13		
	SL007	28-sl7-1t7		
	SL007	30-sl7-1m13		
	SL007	30-sl7-1t7		
	SL007	32-sl7-1m13		
	SL007	32-sl7-1t7		
SL-008	SL008	26sl8	SL-008	HUMP65 E=9e-62 L-plastin. Phosphoprotein (p65)
SL-009	SL009 SL009M13	27sl9		
SL-010	SL010	28sl10	SL-005	
SL-011	SL011	29sl11a	SL-011	HSU10685 - MAGE-10 Gene
SL-012	SL012	31sl12	SL-011	HSU10685 - MAGE-10 Gene
SL-013	SL013	32sl13		
SL-015	SL015	34sl15	SL-015	HSU90336 - PEG3 mRNA
	SL015	46-sl15-2m13		
	SL015	47-sl15-2m13		
	SL015	47-sl15-2t7		
SL-016	SL016	10-sl16-1m13	SL-016	HSMRNAEN - Enkephalinase
	SL016	10-sl16-1t7		
	SL016	11-sl16-1m13		
	SL016	18-sl16-2m13		
	SL016	18-sl16-2t7		
	SL016	19-sl16-2m13		
	SL016	19-sl16-2t7		
	SL016	20-sl16-2m13		
	SL016	20-sl16-2t7		
	SL016	35sl16		

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	SL016	9-sl16-1t7		
SL-017	SL017	36sl17	SL-017	HUMORF01 - KIAA0101 gene
SL-028	SL028m13	B1	SL-028	
	SL028t7	B1		
SL-029	SL029m13	WE97.C1.M13	SL-029	
	SL029t7	WE97.C1.T7		
SL-032	SL032m13	WE97.D1.M13	SL-032	HSTPI1G TPI1 gene for triosephosphate isomerase.
	SL032t7	WE97.D1.T7		
SL-036	SL036m13	WE97.E1.M13	SL-036	HSU81599 homeodomain protein HOXB13
	SL036t7	WE97.E1.T7		
SL-037	SL037m13	C1	SL-005	
	SL037m13	WE97.F1.M13		
	SL037t7	C1		
SL-040	SL040m13	D1	SL-040	
	SL040t7	D1		
SL-041	SL041m13	E1	SL-016	
	SL041m13	WE97.H1.M13		
	SL041t7	E1		
	SL041t7	WE97.H1.T7		
SL-042	SL042m13	WE97.A2.M13	SL-008	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
	SL042t7	WE97.A2.T7		
SL-044	SL044m13	WE97.B2.M13	SL-016	
	SL-044t7	WE97.B2.T7		
SL-045	SL045m13	WE97.C2.M13	SL-045	genomic DNA
	SL045t7	WE97.C2.T7		
SL-046	SL046m13	WE97.D2.M13	SL-046	
	SL046t7	WE97.D2.T7		
SL-047	SL047m13	WE97.E2.M13	SL-047	
	SL047t7	WE97.E2.T7		
SL-050	SL050m13	WE97.F2.M13	SL-050	
	SL050t7	WE97.F2.T7		
SL-051	SL051m13	WE97.G2.M13	SL-051	
	SL051t7	WE97.G2.T7		
SL-054	SL054m13	WE97.H2.M13	SL-054	
	SL054t7	WE97.H2.T7		
SL-055	SL055m13	F1	SL-050	
	SL055t7	F1		
	SL055t7	WE97.A3.T7		

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SL-057	SL057m13 SL057t7	WE97.C3.M13 WE97.C3.T7	SL-057	
SL-058	SL058m13 SL058t7	WE97.D3.M13 WE97.D3.T7	SL-058	HSLRPR1GN leucine-rich primary response protein 1.
SL-061	SL061m13 SL061t7	WE97.E3.M13 WE97.E3.T7	SL-028	
SL-062	SL062m13 SL062t7	WE97.F3.M13 WE97.F3.T7	SL-028	
SL-064	SL064m13 SL064t7	WE97.G3.M13 WE97.G3.T7	SL-064	
SL-066	SL066m13 SL066t7	WE97.H3.M13 WE97.H3.T7	SL-016	
SL-067	SL067m13 SL067t7 SL067t7	H1 H1 WE97.A4.T7	SL-067	HUMKIAAP - KIAA0095 gene
SL-068	SL068m13 SL068t7	WE97.B4.M13 WE97.B4.T7	SL-068	
SL-069	SL069m13 SL069t7	WE97.C4.M13 WE97.C4.T7	SL-069	
SL-071	SL071m13 SL071t7	WE97.D4.M13 WE97.D4.T7	SL-071	
SL-072	SL072m13 SL072t7	WE97.E4.M13 WE97.E4.T7	SL-015	HSU90336 Human PEG3 mRNA AB006625 KIAA0287
SL-074	SL074m13 SL074t7	WE97.F4.M13 WE97.F4.T7	SL-074	
SL-075	SL075m13 SL075t7	WE97.G4.M13 WE97.G4.T7	SL-075	
SL-076	SL076m13 SL076t7	WE97.H4.M13 WE97.H4.T7	SL-076	
SL-077	SL077m13 SL077t7	WE97.A5.M13 WE97.A5.T7	SL-077	
SL-078	SL078m13 SL078m13 SL078t7	A2 WE97.B5.M13 A2	SL-016	BAC clone (with Alu) AB006625 - KIAA0287 gene
SL-081	SL081m13 SL081t7	WE97.E5.M13 WE97.E5.T7	SL-003	
SL-083	SL083m13 SL083t7	WE97.G5.M13 WE97.G5.T7	SL-083	
SL-084	SL084m13 SL084t7	WE97.H5.M13 WE97.H5.T7	SL-084	(HS295C6 Human DNA sequence)

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PATENT

SL-085	SL085m13	WE97.A6.M13	SL-085	
SL-086	SL086m13	WE97.B6.M13	SL-086	
	SL086t7	WE97.B6.T7		
SL-087	SL087m13	WE97.C6.M13	SL-087	EST and Mus musculus ras-GTPase-activating protein
	SL087t7	WE97.C6.T7		
SL-088	SL088m13	WE97.D6.M13	SL-015	HSU90336 Human PEG3 & AB006625 - KIAA0287 gene
	SL088t7	WE97.D6.T7		
SL-089	SL089m13	WE97.E6.M13	SL-089	
	SL089t7	WE97.E6.T7		
SL-090	SL090m13	D2	SL-090	
	SL090t7	D2		
SL-091	SL091m13	WE97.G6.M13	SL-091	
	SL091t7	WE97.G6.T7		
SL-092	SL092m13	WE97.H6.M13	SL-092	HUMPRKACB testis-specific cAMP-dependent protein kinase catalytic subunit (C-beta isoform)
	SL092t7	WE97.H6.T7		
SL-093	SL093m13	E2	SL-008	HUMLPLSTN2 L-plastin gene
	SL093t7	E2		
SL-094	SL094m13	WE97.B7.M13	SL-094	
	SL094t7	WE97.B7.T7		
SL-095	SL095m13	WE97.C7.M13	SL-003	AB006625 - KIAA0287
	SL095t7	WE97.C7.T7		
SL-096	SL096m13	WE97.D7.M13	SL-096	
	SL096t7	WE97.D7.T7		
SL-097	SL097m13		SL-071	
	SL097t7			
SL-098	SL098m13		SL-098	
	SL098t7			
SL-099	SL099m13		SL-016	
	SL099t7			
SL-100	SL100m13	F2	SL-085	SL100m13 Alu - 2e-71
	SL100m13			
	SL100t7	F2		
	SL100t7			
SL-102	SL102m13		SL-102	HSRPL32 ribosomal protein L32
	SL102t7			
SL-103	SL103m13		SL-103	
	SL103t7			
SL-105	SL105m13		SL-105	
	SL105t7			
SL-106	SL106m13		SL-106	
	SL106t7			
SL-107	SL107m13		SL-016?	SL107m13 -Alu - 2e-78
	SL107t7			
SL-110	SL110m13		SL-003	AB006625- KIAA0287 gene

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	SL110t7			
SL-111	SL111m13 SL111t7		SL-111	
SL-112	SL112m13 SL112t7		SL-112	
SL-115	SL115m13 SL115t7		SL-115	D86322 - calmegin
SL-116	SL116m13 SL116t7		SL-116	
SL-117	SL117m13 SL117t7		SL-117	HUMNUMB23 = HUMNPM Human nucleolar protein (B23) or Human nucleophosmin
SL-118	SL118m13 SL118t7		SL-118	
SL-119	SL119m13 SL119t7		SL-119	
SL-120	SL120m13 SL120t7		SL-046	
SL-121	SL121m13 SL121t7		SL-016	
SL-122	SL122m13 SL122t7		SL-122	HUMPRKACB testis-specific cAMP-dependent protein kinase catalytic subunit (C-beta isoform)
SL-124	SL124m13 SL124t7		SL-016	
SL-125	SL125m13 SL125t7		SL-125	HSU19145 GAGE-4 (US 5,648,226)
SL-127	SL127m13 SL127t7		SL-127	
SL-128	SL128m13 SL128t7		SL-005	
SL-130	SL130m13 SL130t7		SL-130	
SL-132	SL132m13 SL132t7		SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-134	SL134m13 SL134t7		SL-134	HSC70P Hsc 70 pseudogene (Heat Shock protein)
SL-135	SL135m13 SL135t7		SL-135	
SL-138	SL138m13 SL138t7		SL-051	
SL-139	SL139m13 SL139t7		SL-139	Homo sapiens cosmid
SL-142	SL142m13 SL142t7		SL-005	

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PATENT

SL-143	SL143m13 SL143t7		SL-143	Genomic clone AC003978
SL-144	SL144m13 SL144t7		SL-144	E= 3-81
SL-145	SL145m13		SL-003	AB006625- KIAA0287 gene
SL-146	SL146m13 SL146t7	WE97.E7.M13 WE97.E7.T7	SL-146	
SL-147	SL147m13 SL147m13 SL147t7	G2 WE97.F7.M13 G2	SL-147	(1) HSCDC2R Human cell cycle control gene CDC2 (2) HSU29091 selenium-binding
SL-148	SL148m13 SL148t7	WE97.G7.M13 WE97.G7.T7	SL-016	
SL-149	SL149m13 SL149t7	H2 H2	SL-149	
SL-150	SL150m13 SL150t7	A3 A3	SL-150	"Human DNA sequence"
SL-151	SL151m13 SL151t7	WE97.B8.M13 WE97.B8.T7	SL-151	Genomic frag
SL-152	SL152m13 SL152t7	WE97.C8.M13 WE97.C8.T7	SL-152	
SL-153	SL153m13 SL153t7	WE97.D8.M13 WE97.D8.T7	SL-153	
SL-154	SL154t7	WE97.E8.T7	SL-154	HUMPAR5R - PAR-5 mRNA
SL-155	SL155m13 SL155t7	WE97.F8.M13 WE97.F8.T7	SL-028	SL155m13 - EST only in Mouse
SL-156	SL156m13 SL156t7	WE97.G8.M13 WE97.G8.T7	SL-016	
SL-157	SL157m13 SL157t7	WE97.H8.M13 WE97.H8.T7	SL-157	
SL-158	SL158m13 SL158t7	WE97.A9.M13 WE97.A9.T7	SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-159	SL159m13 SL159t7	WE97.B9.M13 WE97.B9.T7	SL-159	Chromosome 11 pac
SL-160	SL160m13 SL160t7	WE97.C9.M13 WE97.C9.T7	SL-051	
SL-161	SL161m13 SL161t7	WE97.D9.M13 WE97.D9.T7	SL-161	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
SL-162	SL162m13 SL162t7	B3 B3	SL-162	
SL-163	SL163m13 SL163t7	WE97.F9.M13 WE97.F9.T7	SL-016	HSU75330 -NCAM21
SL-164	SL164m13 SL164t7	WE97.G9.M13 WE97.G9.T7	SL-016	
SL-165	SL165m13 SL165t7	WE97.H9.M13 WE97.H9.T7	SL-165	(genomic seq)

TABLE I

PATENT

SL-166	SL166m13 SL166t7 SL166t7	C3 C3 WE97.A10.T7	SL-166	
SL-167	SL167m13 SL167t7	WE97.B10.M13 WE97.B10.T7	SL-167	HUMLPAC109 lipoprotein-associated coagulation inhibitor (LACI) gene
SL-168	SL168m13 SL168t7	WE97.C10.M13 WE97.C10.T7	SL-168	
SL-169	SL169m13 SL169t7	WE97.D10.M13 WE97.D10.T7	SL-169	HUMNEUROF oligodendrocyte myelin glycoprotein (OMG)
SL-170	SL170m13 SL170t7	WE97.E10.M13 WE97.E10.T7	SL-170	
SL-171	SL171m13 SL171t7	WE97.F10.M13 WE97.F10.T7	SL-171	AB002374 - KIAA0376 gene
SL-172	SL172m13 SL172t7	WE97.G10.M13 WE97.G10.T7	SL-016	
SL-173	SL173m13 SL173t7	WE97.H10.M13 WE97.H10.T7	SL-173	
SL-174	SL174m13 SL174t7	D3 D3	SL-174	
SL-175	SL175m13 SL175t7	WE97.B11.M13 WE97.B11.T7	SL-016	
SL-176	SL176m13 SL176t7	WE97.C11.M13 WE97.C11.T7	SL-176	
SL-177	SL177m13 SL177t7	WE97.D11.M13 WE97.D11.T7	SL-177	
SL-178	SL178m13 SL178t7	WE97.E11.M13 WE97.E11.T7	SL-178	Human BAC clone
SL-179	SL179m13 SL179t7	WE97.F11.M13 WE97.F11.T7	SL-179	
SL-181	SL181m13 SL181t7	WE97.H11.M13 WE97.H11.T7	SL-181	
SL-182	SL182m13 SL182m13 SL182t7	F3 WE97.A12.M13 F3	SL-182	HUCAPEA apurinic/apyrimidinic endonuclease (HAPIh) HSHAP1MR Human HAPI mRNA
SL-183	SL183m13 SL183t7	WE97.B12.M13 WE97.B12.T7	SL-046	
SL-184	SL184m13 SL184t7	WE97.C12.M13 WE97.C12.T7	SL-016	
SL-186	SL186m13 SL186t7	WE97.D12.M13 WE97.D12.T7	SL-186	
SL-187	SL187m13 SL187t7	WE97.E12.M13 WE97.E12.T7	SL-187	
SL-188	SL188m13 SL188t7 SL188t7	G3 G3 WE97.F12.T7	SL-188	

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SL-191	SL191m13 SL191t7	WE97.H12.M13 WE97.H12.T7	SL-181	
SL-192	SL192m13 SL192t7	H3 H3	SL-192	Human DNA sequence"
SL-193	SL193m13 SL193t7	A4 A4	SL-193	
SL-194	SL194m13 SL194t7	B4 B4	SL-194	HUMKGIDD - KIAA0098 gene
SL-195	SL195m13 SL195t7	C4 C4	SL-195	
SL-196	SL196m13 SL196t7	D4 D4	SL-196	HUMMAOAAA monoamine oxidase (MAOA)
SL-197	SL197m13 SL197t7	E4 E4	SL-197	
SL-198	SL198m13 SL198t7	F4 F4	SL-198	
SL-199	SL199m13 SL199t7	G4 G4	SL-016	
SL-201	SL201m13 SL201t7	A5 A5	SL-028	(Mouse ESTs only)
SL-202	SL202m13 SL202t7	B5 B5	SL-202	mitochondrial genome & ESTs(?)
SL-203	SL203m13 SL203t7	C5 C5	SL-040	
SL-204	SL204m13 SL204t7	D5 D5	SL-204	
SL-205	SL205m13 SL205t7	E5 E5	SL-205	
SL-206	SL206m13 SL206t7	F5 F5	SL-015	AB006625 - KIAA0287 gene
SL-207	SL207m13 SL207t7	G5 G5	SL-207	HUMFOLMES - DHFT dihydrofolate reductase gene
SL-208	SL208m13 SL208t7	H5 H5	SL-208	AB011165 - KIAA0593
SL-209	SL209m13 SL209t7	A6 A6	SL-209	
	batch 1			
	batch 2			
	batch 3			
	batch 4			

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)			PATENT	
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)		
10.s16.117	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>		
18.s16.217	<NONE>	<NONE>	<NONE>	MT_PLEPL	METALLOTHIONEIN (MT)>PIR2:S30567 metallothionein - plaice>GP:PPMMET_1 P.platessa mRNA for metallothionein	0.32		
22.s14	AC004601	***SEQUENCING IN PROGRESS ***Human Chromosome 11p14.3 PAC clone pDJ939m16; HPGS phase 1.3 unordered pieces. Homo sapiens chromosome 16 BAC clone C1987SK-270G1 complete sequence	0.016	VPI_BPCIP	PROTEIN VP1(ORF1)	1.0		
27.s19	AF001549	Homo sapiens Rad51-interacting protein mRNA, complete cds.	7.2e-28	ALU6_HUMAN	!!! ALU SUBFAMILY SP WARNING ENTRY !!! Mus musculus RAD51-binding protein RAB22 mRNA, complete cds	3.5e-07		
32.s13	AF006259	Homo sapiens Rad51-interacting protein mRNA, complete cds.	1.2e-09	MMU93583_1	Mus musculus transcription factor Genesis mRNA, complete cds; A winged helix retinoic- acid hepatocyte nuclear factor 3/forkhead transcription factor; HNF3/TF1 transcription factor	1.2e-13		
39.s13.1m13	U07056	Human prostatic acid phosphatase (ACPP) gene, exon 1. Sequence 2 from Patent EP 0272928.	1.1e-09	MMU41047_1		0.36		
47.s15.217	U08056		4.8e-52	<NONE>	<NONE>	<NONE>		
s1102m13	AC004453	Homo sapiens PAC clone DJ0844F09 from 7p12-p13, complete sequence.	5.0e-50	SIK1_YEAST	SIK1 PROTEIN>PIR2:S48550 hypothetical protein YLR197w - yeast (Saccharomyces cerevisiae)>GP:SCU20237_1 Saccharomyces cerevisiae SIK1p (SIK1) gene, complete cds; Possible microtubule binding protein; similar to GenBank Accession Number U14913	2.7e-09		
s1103m13	AC002542	Human BAC clone RGH14A06 from 7q31, complete sequence.	0.78	MUSIGHV01B_1	Mouse CBA/J Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.30		
s110317	AC002542	Human BAC clone RGH14A06 from 7q31, complete sequence.	7.0e-11	MUSIGHV01B_1	Mouse CBA/J Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.25		

TABLE 2

BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)				
Seq. Name and/or Other Seq Name	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
s110617	148979	Sequence 6 from patent US 5627054.	4.3e-39	Y694_METJA	HYPOTHETICAL PROTEIN MJ0694>PIR2:F64386 hypothetical protein MJ0694 - Methanococcus jannaschii>Gp:U67516_8 Methanococcus jannaschii section 58 of 150 of the complete genome; Conserved hypothetical protein; Similar to SP:Q12499 P1D:1420682P1	1.5e-08
s110717.fsa	AL021395	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 269M15; HTGS phase I.	2.6e-07	ALU4_HUMAN	!!! ALU SUBFAMILY Y SB2 WARNING ENTRY !!!	0.45
s112417	B3134	HS-1008-A2-A05-MFabi CTF Human Genomic Sperm Library C' Homo sapiens genomic clone Plate=C'F 330 Col=10 Row=A. genomic survey sequence.	1.0e-55	ALU7_HUMAN	!!! ALU SUBFAMILY Y SQ WARNING ENTRY !!!	1.2e-14
s112717	783818	Human DNA sequence from PAC 138A5 on chromosome X contains ESTs.	2.8e-16	YA3A_SCIPO	HYPOTHETICAL TRP-ASP REPEATS CONTAINING PROTEIN C18B11.10 IN CHROMOSOME 1>PIR2:S58306 hypothetical protein spac18b11.10 - fission yeast (Schizosaccharomyces pombe)>Gp:SPAC18B11.10 S.pombe chromosome 1 cosmid c18B11; Unknown; SPAC18B11.10.1e	0.97
s1135m13	AC003959	Homo sapiens chromosome 5, P1 clone 1029A7 (1.BNL1115). complete sequence.	1.8e-57	AC004416_5	Homo sapiens BAC clone RG013N12 from 7q31.2, complete sequence; H RG013N12.gw;1335199.a	0.016
s113517	AC003044	Human PAC clone DJ055C04 from 7p15-7p21, complete sequence.	3.8e-25	ATT50669_1	A; thaliana transcribed sequence; clone VDV28- 22792.3' end; similar to non-specific lipid- transfer protein precursor	0.77
s1144m13	AC003684	Homo sapiens; HTGS phase I, 53 unordered pieces.	2.2e-10	<NONE>	<NONE>	<NONE>
s114417	AC004089	*** SEQUENCING IN PROGRESS *** Human Chromosome 7 BAC Clone 155b01; HTGS phase I, 11 unordered pieces.	0.25	<NONE>	<NONE>	<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. (ib (nearest neighbor)		BlastX vs. NR1db (nearest neighbor)		PATIENT	
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SI149m13 WT97.117.M13	M87923	Human carcinoma cell-derived Alu RNA transcript, clone CE12.	7.2e-55	ALU2_HUMAN	!!! ALU SUBFAMILY SB WARNING ENTRY !!!	4.7e-17
SI150m13 WT 97.118.M13	AF019122	Homo sapiens DNA polymerase gamma (POLG) gene, nuclear gene encoding mitochondrial protein, partial sequence, genomic survey sequence.	5.5e-07	<NONE>	<NONE>	<NONE>
SI152m13	AF022486	Cyanidium caldarium RK1 chloroplast sequence	0.11	<NONE>	<NONE>	<NONE>
SI15217	AC002524	Homo sapiens Xp22 BAC GSHB- 257G1 (Genome Systems BAC Library) complete sequence.	3.5e-28	F40201	artifact-warning sequence (translated ALU class F) - human	1.2e-05
SI153m13	U129895	Human 4-hydroxyphenylpyruvate- dioxygenase gene, complete cds.	4.4e-15	C40201	artifact-warning sequence (translated ALU class C) - human	0.49
SI15317	U129895	Human 4-hydroxyphenylpyruvate- dioxygenase gene, complete cds.	5.1e-09	A46010	X-linked retinopathy protein (C-terminal, clone XE11.8c) - human (fragment)>GP:558722_1 X- linked retinopathy protein [3' region, clone XE11.8c] [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	0.070
SI155m13	Z99286	Caenorhabditis elegans cosmid Y7A9C, complete sequence.	0.016	POLG_PRSVII	GENOME POLYPROTEIN (CONTAINS: N- TERMINAL PROTEIN; HELPER COMPONENT PROTEINASE (EC 3.4.22.-) (HC-PRO); 42.50 KD PROTEIN; CYTOPLASMIC INCLUSION PROTEIN (CI); 6 KD PROTEIN; NUCLEAR INCLUSION PROTEIN A (NI-A) (EC 3.4.22.-) (49K PROTEINASE) (49	1.0
SI157m13	U01321	Human Chromosome 16 BAC clone CTT987SK-A-363E6, complete sequence.	6.0e-26	ALU1_HUMAN	!!! ALU SUBFAMILY J WARNING ENTRY !!!	4.5e-11

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TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description				
SL16017	<NONE>	<NONE>	C'A34_HUMAN	PROCOLLAGEN ALPHA 3(IV) CHAIN PRECURSOR>PIR1:CGH033 collagen alpha 3(IV) chain precursor, long splice form - human>GPN:HSCOL4A3_1 H:sapiens COL4A3 mRNA; Type IV collagen alpha 3 chain>GP:HSCOL4A3_1 H:sapiens COL4A3 mRNA; Type IV collagen alp	<NONE>			0.99
SL16217 WT:97.19.17	X58263	Mouse microsatellite marker DNA D4SM116b, 4.	PRF1_LYCES	36.4 KD PROLINE-RICH PROTEIN>PIR2:SI9129 proline-rich protein TPRP-F1 - tomato>GP:LETPRPF1_1 L: esculentum TPRP-F1 gene for a proline rich protein	0.0029			0.99
SL16917	AC004687	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome 17, clone hRPC1171_1_10; ITGS phase 1, 4 unordered pieces.	<NONE>	<NONE>	2.5e-11		<NONE>	<NONE>
SL17417	<NONE>	<NONE>	A54895	mucin2, intestinal/tracheal - rat (fragment)	<NONE>			0.13
SL176m13	773424	Caenorhabditis elegans cosmid C44B9, complete sequence	<NONE>	<NONE>	0.00084		<NONE>	<NONE>
SL17617	783119	Caenorhabditis elegans cosmid R05110, complete sequence	<NONE>	<NONE>	0.38		<NONE>	<NONE>
SL177m13	AI022279	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y43F11; ITGS phase 1.	ANX7_BOVIN	ANNEXIN VII (SYNEXIN) (FRAGMENT)>PIR2:A27695 synexin - bovine (fragment)	0.00064			0.0018
SL17717	AC002416	Human Chromosome X, complete sequence	<NONE>	<NONE>	1.8e-17		<NONE>	<NONE>
SL179m13	AF039052	Caenorhabditis elegans cosmid T221D1	CMU23045_8	Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8>GP:CMU23045_8 Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8	0.030			0.98

TABLE 2

PATENT

Seq. Name and/or Other Seq. Name	BlastN vs. Gh (nearest neighbor)			BlastX vs. NRpdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL17917	141631	Mus musculus glucokinase gene, complete cds.	0.017	<NONE>	<NONE>	<NONE>
SL18113	798867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase I.	0.017	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GIP:ANARODCORA_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.99
SL18117	798867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase I.	0.018	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GIP:ANARODCORA_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.99
SL19113	798867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase I.	0.019	<NONE>	<NONE>	<NONE>
SL19513	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CTF987SK-A-427110; HTGS phase I, 15 unordered pieces.	0.050	HSU55091_1	Human isolate HIR015 T cell receptor V-beta complementarity determining region 3 mRNA, partial cds	1.0
SL19517	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CTF987SK-A-427110; HTGS phase I, 15 unordered pieces.	0.053	S54078	probable membrane protein YPR056w - yeast (Saccharomyces cerevisiae)>GIP:SC9499X_12 Saccharomyces chromosome XVI cosmid 9499; Unknown; U19499; 12, unknown, len:338, CAl: 0; 12, similar to S44455, transcription factor BTF2 chain p34, (29,3% identit	0.64

TABLE 2

PATENT

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)		BlastX vs. NR1db (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description				
SI 197m13	AF003134	Caenorhabditis elegans cosmid ZC581	<NONE>	<NONE>	0.99	<NONE>	<NONE>	<NONE>
SI 197r7	U43400	Human herpesvirus-7 (HIV7) H, complete virion genome.	<NONE>	<NONE>	0.99	<NONE>	<NONE>	<NONE>
SI 197	V00073	Sindbis virus sequence complementary to 26S messenger RNA.	<NONE>	<NONE>	3.2e-09	<NONE>	<NONE>	<NONE>
SI 201m13	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	SIU05069_1	Simian immunodeficiency virus SIVRht:543 clone 5-4 envelope glycoprotein (env) gene, V1 region, partial cds	0.0013			1.0
SI 201r7	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	HUMLTBP_1	Homo sapiens (clone H44) latent transforming growth factor-beta binding protein (LTBP-II) gene, partial cds; Latent transforming growth factor-binding protein	0.0014			1.0
SI 204m13	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	CEI44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35;1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	1.0e-11			5.6e-72
SI 204r7	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	CEI44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35;1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	9.3e-12			2.3e-71
SI 28m13	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>			<NONE>
SI 28r7	Z84469	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 390013; HTGS phase 1.	<NONE>	<NONE>	2.9e-53			<NONE>

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Cb (nearest neighbor)			BlastX vs. NR12b (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL29m13	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	3.3e-09	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.-) > GP:MEFMCRC_5 M; fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.95
SL2917	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	0.97	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.-) > GP:MEFMCRC_5 M; fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.97
SL4M13	D42085	Human mRNA for KIAA0095 gene, complete cds.	2.0e-27	HUMKIAAP_1	Human mRNA for KIAA0095 gene, complete cds; KIAA0095 gene is related to S.cerevisiae NIC96 gene	3.6e-12
SL54m13	Z68694	Human DNA sequence from cosmid c117718, between markers DXS366 and DXS87 on chromosome X.	4.9e-28	HUMF8L1A_1	Human factor VIII gene 1.1 element insertion DNA; Unknown protein; ORF; putative	1.2e-12
SL6117	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence. *** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 P1-YAC812 genomic sequence; HTGS phase I, 26 unordered pieces. *** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 P1-YAC293 genomic sequence; HTGS phase I, 18 unordered pieces.	0.00083	AF004841_1	Homo sapiens CDO mRNA, complete cds; Immunoglobulin superfamily member; contains fibronectin type III-like domain	1.0
SL6217	AC004153		1.0	<NONE>	<NONE>	<NONE>
SL68m13	AC004157		0.00071	<NONE>	<NONE>	<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)			P(V)
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)	
SI.6817	AJ226619	Ciona intestinalis genomic fragment, clone 17116, genomic survey sequence	0.064	<NONE>	<NONE>	<NONE>	
SI.69ml3.fsa	Z22789	H.sapiens C/AT repeat polymorphism sequence.	1.9e-22	AE001779_2	Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein f; putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27.00; identified by sequence	1.0	
SI.6917	AL010138	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-66, complete sequence.	0.21	AE001779_2	Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein f; putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27.00; identified by sequence	1.0	
SI.75ml3	AC002536	Human Chromosome 11 pac pDJ1075120, complete sequence.	1.0	BTRNAT3_1	B.taurus mRNA for complete thrombospondin	0.0074	
SI.7717	AF012886	Buchnera aphidicola UDP-N- acetylglutamate; L-alanine ligase (mmC157), D-alanine; D-alanine ligase (ddB), cell division protein (ftsA), cell septation protein (ftsZ), and pls genes, complete cds.	0.40	<NONE>	<NONE>	<NONE>	
SI.86ml3	Z69790	Caenorhabditis elegans cosmid F33C8, complete sequence.	0.020	<NONE>	<NONE>	<NONE>	
SI.8617	U39368	Acanthamoeba sp. 16S ribosomal RNA gene, mitochondrial gene encoding mitochondrial RNA, partial sequence.	0.054	<NONE>	<NONE>	<NONE>	
SI.90ml3	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	
SI.94ml3	X95276	P.falciparum complete gene map of plastid-like DNA (rrr-B).	0.0096	SHIFORF_1	Shigella sonnei DNA for 26 ORFs, complete cds; ORF1	0.15	

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Cib (nearest neighbor)		BlastX vs. NRpdb (nearest neighbor)		P(V)	P(V)
	Accession	Hit Description	Accession	Hit Description		
SI 9417	AL022313	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 1119A7; HTCIS phase 1.	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X- linked retinopathy protein [3' region, clone XEH.8c] [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	6.0e-18	5.7e-07

CLAIMS

WE CLAIM:

1. A method of diagnosing cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations comprising:
 - (a) providing a polynucleotide probe that comprises a sequence capable of hybridizing to any one of the sequences shown in SEQ ID NO:1-339 or complement thereof;
 - (b) contacting a biological sample for diagnosis with said probe under hybridizing conditions that permit formation of a duplex; and
 - (c) determining the presence of said duplex.
2. The method of claim 1, wherein said polynucleotide probe comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.
3. The method of claim 2, wherein said polynucleotide probe comprises 8 contiguous nucleotides of the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.
4. A method of diagnosing cancer, tumor progression, or hyperproliferative cell growth comprising:
 - (a) providing an antibody capable of binding to a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof;
 - (b) contacting a biological sample for diagnosis with said antibody under binding conditions that permit formation of an antibody-polypeptide complex; and
 - (c) determining the presence of said complex.
5. The method of claim 4, wherein said antibody is capable of binding to a polypeptide comprising at least six contiguous amino acid of a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof.

6. The method of claim 5, wherein said polypeptide comprises at least six contiguous amino acids of a polypeptide encoded by any one the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.

7. A diagnostic kit comprising:

(a) a diagnostic reagent comprising a polynucleotide probe that comprises a sequence capable of hybridizing to any one of SEQ ID NO:339 or complement thereof when said sequence is present in a test biological sample;

(b) a normal biological sample; and

(c) instructions for detecting differences that exist between the levels of duplexes in said test biological sample as compared to said normal biological sample.

8. A method of treating a mammal with cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations, said method comprising administering to said mammal a composition that comprises a therapeutically effective amount of a polynucleotide comprising a sequence capable of hybridizing under stringent conditions to any one of SEQ ID NO:1-339 or complement thereof.

9. The method of claim 8, wherein said polynucleotide comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.

10. The method of claim 9, wherein said polynucleotide is an antisense construct.

11. The method of claim 9, wherein said polynucleotide is a ribozyme construct.

12. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of any one of SEQ ID NO:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
 - (b) a polynucleotide encoding a variant of the polypeptide encoded by (a);
- and
- (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of at least one of sequences of (a).
13. A vector comprising the polynucleotide of claim 12.
14. A host cell comprising the vector of claim 13.
15. A composition comprising a polypeptide, wherein the polypeptide is selected from the group consisting of:
- (a) a polypeptide encoded by any one of the polynucleotides of claim 12,
- and
- (b) a variant of the polypeptide of (a).

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Sequence Range: 1 to 1383

10 20 30 40 50 60
TTA CTC ACT ATA GGG CTC GAG CGG CCG CCC GGG CAG GTG TAA AAA TAA AAT GAC AGT TTG AAC ATA
AAT GAG TGA TAT CCC GAG CTC GCC GGC GGG CCC GTC CAC ATT TTT ATT TTA CTG TCA AAC TTG TAT
<E S Y P E L P R G P L H L F L I V T Q V Y

70 80 90 100 110 120 130
CAA AAC CCA CCC CAT TCC TAT AGA GCC TAG TAC TAC ACT ACC CCC TCC CAA CTT TAG CCT CCA CAT
GTT TTG GGT GGG GTA AGG ATA TCT CGG ATC ATG ATG TGA TGG GGG AGG GTT GAA ATC GGA GGT GTA
<L V W G M G I S G L V V S G G G L K L R W M

140 150 160 170 180 190
ATA GTA ATG TGC TTG GAA CAC AAA AAA CAC TTC ATA AAT TGT GCT GAA TGA AAT CAT TTC CAT GAG
TAT CAT TAC ACG AAC CTT GTG TTT TTT GTG AAG TAT TTA ACA CGA CTT ACT TTA GTA AAG GTA CTC
<Y Y H A Q F V F F V E Y I T S F S I M E M

200 210 220 230 240 250 260
TGT TTA TGG ATT TTG AGT TCA TTT GTA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT
ACA AAT ACC TAA AAC TCA AGT AAA CAT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA

270 280 290 300 310 320 330
TTC CAG AGC AAA GGA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA
AAG GTC TCG TTT CCT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT

340 350 360 370 380 390
GGG CAC AGA TCC CAG GCA TAA CAA CGC TTT GCG TAT ACA GCA ACC AAT ATC TTG TCA ACC CAA GAA
CCC GTG TCT AGG GTC CGT ATT GTT GCG AAA CGC ATA TGT CGT TGG TTA TAG AAC AGT TGG GTT CTT

400 410 420 430 440 450 460
AGT TCC TCC ATT GAT ACC TAG TAG AAA TAG CCC AGT TTT TAA AGT CCT CAA AAC TGT AAC AAA TTA
TCA AGG AGG TAA CTA TGG ATC ATC TTT ATC GGG TCA AAA ATT TCA GGA GTT TTG ACA TTG TTT AAT

470 480 490 500 510 520
CTT GTT TTT AAA ATT TAA CTT AAA TTA ATA CAA TCA GAT TTT TGT GTT ATT TGG GTA TTA GAG TAT
GAA CAA AAA TTT TAA ATT GAA TTT AAT TAT GTT AGT CTA AAA ACA CAA TAA ACC CAT AAT CTC ATA

530 540 550 560 570 580 590
GTT AAA GCA CAT ATA TCC CAG AGA CAT AGA GTT TCC GTT TCA AAA AGT CAT GCA TTC ATG TGT GCT
CAA TTT CGT GTA TAT AGG GTC TCT GTA TCT CAA AGG CAA AGT TTT TCA GTA CGT AAG TAC ACA CGA

600 610 620 630 640 650 660
AAT GAC AAT CCT ATC CTG ACC CGC TAT GTG ACT TGT ATC TCT AAA CCA TAG GCT TTC CTG AAT TTT
TTA CTG TTA GGA TAG GAC TGG GCG ATA CAC TGA ACA TAG AGA TTT GGT ATC CGA AAG GAC TTA AAA

670 680 690 700 710 720
ATC TGT TAA TTT AAC CCT GAT TTC TCA GCA GCA GCT TCT CTT TGT AAA TAG ACT TGC CTC TTC TGT
TAG ACA ATT AAA TTG GGA CTA AAG AGT CGT CGT CGA AGA GAA ACA TTT ATC TGA ACG GAG AAG ACA

730 740 750 760 770 780 790
GTC TGA CCT CTG CTC CTC ATA ATC AGA TTA ACT CAG ATA AAG CTG CTT CAG GGA AGA GGT CAA AAC
CAG ACT GGA GAC GAG GAG TAT TAG TCT AAT TGA GTC TAT TTC GAC GAA GTC CCT TCT CCA GTT TTG

FIG. 1A

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800	810	820	830	840	850
CST TGC CAA AAA TAG TAG TTG CCC TAC TTC AGT CTA TTT TCA ACA GAG TAG CCA GGA GAT CCT GTT					
GCA ACG GTT TTT ATC ATC AAC GGG ATG AAG TCA GAT AAA AGT TGT CTC ATC GGT CCT CTA GGA CAA					
860	870	880	890	900	910
CAC ACC AAA GTC CAA TCA GCC CTA CTG TTA GCA CTC TGC TCA CAA GCC TCC AGT GGC TTC CGA CCT					
GTG TGG TTT CAG GTT AGT CGG GAT GAC AAT CGT GAG ACG AGT GTT CGG AGG TCA CCG AAG GCT GGA					
930	940	950	960	970	980
CAC TCA CAG TAA AAG CCA AGT CAT CCT TTA GCC TAT GAT GTC CTA CAT GAT TTG AAT TCC CTT CCA					
GTG AGT GTC ATT TTC GGT TCA GTA GGA AAT CGG ATA CTA CAG GAT GTA CTA AAC TTA AGG GAA GGT					
1000	1010	1020	1030	1040	1050
TTG ATT TTT GTC ACT GAT TTT TAA AAA TCC AAA TTC ATT CTC ATA CAG CTG AAT TGT CCT CTT TGC					
AAC TAA AAA CAG TGA CTA AAA ATT TTT AAG TTT AAG TAA GAG TAT GTC GAC TTA ACA GGA GAA ACG					
1060	1070	1080	1090	1100	1110
TTT AAG TAT GCC AGG ATT ATT TCT ACC TCA GGG CCT TTG CAC TTG ATA TTC CCT TCA CCT TTT CCA					
AAA TTC ATA CGG TCC TAA TAA AGA TGG AGT CCC GGA AAC GTG AAC TAT AAG GGA AGT GGA AAA GGT					
1130	1140	1150	1160	1170	1180
AGA TAG TTA TTC CCT CAC CTC AGT CAA GCC TTT ATT TAG ATG CCC CCT TCT CAT CAA GGC ATT CTC					
TCT ATC AAT AAG GGA GTG GAG TCA GTT CGG AAA TAA ATC TAC GGG GGA AGA GTA GTT CCG TAA GAG					
1190	1200	1210	1220	1230	1240
TGA TCT CCT TAT TTA AAT GTA TGA CAC CCC TTC TTT GCT TTA CAT TTA ATC AGA ACA TGT GTC ACT					
ACT AGA GGA ATA AAT TTA CAT ACT GTG GGG AAG AAA CGA AAT GTA AAT TAG TCT TGT ACA CAG TGA					
1260	1270	1280	1290	1300	1310
ATC TAG CAT ATA ATA CAT TTG CTT GAC CTC TTT TGT TTA CTG TCT ATG CCT CCT GAA TAC TGT GTA					
TAG ATC GTA TAT TAT GTA AAC GAA CTG GAG AAA ACA AAT GAC AGA TAC GGA GGA CTT ATG ACA CAT					
1330	1340	1350	1360	1370	1380
AGC TCC ACG ATA CAG GCA CTT TTC TCT ATT TCG AGC ACT GTT GTA TTA CAG AGC CTT AAA					
TCG AGG TGC TAT GTC CGT GAA AAG AGA TAA AGC TCG TGA CAA CAT AAT GTC TGC GAA TTT					

FIG. 1B

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Sequence Range: 1 to 1815

10 20 30 40 50 60
ACT TTT TGT TCA TTT TGA TTT TTG GAT AAT GCA AAA TTA TAG ATT TTT TAA AAA TTA TAT TCA AAG
AAA ACA AGT AAA ACT AAA AAC CTA TTA CGT TTT AAT ATC TAA AAA ATT TTT AAT ATA AGT TTC TTA

70 80 90 100 110 120 130
AAT ACT GAG TGC AAG ACA ATC TTT CTA GGT TAA AAA ATA TCT TAT AAA CCT GAA TTG TCA ATT ATT
CTC ACG TTC TGT TAG AAA GAT CCA ATT TTT TAT AGA ATA TTT GGA CTT AAC AGT TAA TAA TAA CAT

140 150 160 170 180 190
ATT GTA TCC CAG ATG TAT GGA AGT TAA TGG ATA GTC AGT AAC ATA CAG GAC TAG CAG AAG GTT TGT
TGA TGA AGG GTC TAC ATA CCT TCA ATT ACC TAT CAG TCA TTG TAT GTC CTG ATC GTC TTC CAA ACA

200 210 220 230 240 250 260
TGT TAT AGG TAA TCT GGA GAG AAG CCA GGT AAG TGG AAT TTG GGA TTT GCT GCT GTT GCC AGA AAG
ACA ATA TCC ATT AGA CCT CTC TTC GGT CCA TTC ACC TTA AAC CCT AAA CGA CGA CAA CGG TCT TTC

270 280 290 300 310 320 330
CAG CAC AGA GAC ATG GTA AGT GGC AAG ACC CAG GTA ACT AAA ACA ACC ATG TCT TAG TCC TTT TAT
GTC GTG TCT CTG TAC CAT TCA CCG TTC TGG GTC CAT TGA TTT TGT TGG TAC AGA ATC AGG AAA ATA

340 350 360 370 380 390
GCT GCT GTA ACA GAA TAT CAC AGA CTG AGT AAT TTA TAA TGA ACA GAA CTT TAT TTG TCT TCT GGT
CGA CGA CAT TGT CTT ATA GTG TCT GAC TCA TTA AAT ATT ACT TGT CTT GAA ATA AAC AGA AGA CCA

400 410 420 430 440 450 460
TCT GGA GAC TGG GAA ATC TAA GAG CGT GGC ATT GAC ATA TGG TGA GGG CAT TTG TGC CTC ATC ATC
AGA CCT CTG ACC CTT TAG ATT CTC GCA CCG TAA CTG TAT ACC ACT CCC GTA AAC ACG GAG TAG TAG

470 480 490 500 510 520
CCA TGA CAG AAG ATG GAA ATG CAA GAG AGC TCA AAA GCA AGA GAG CAA ATG GGG CCA AAC TTG CTT
GGT ACT GTC TTC TAC CTT TAC GTT CTC TCG AGT TTT CGT TCT CTC GTT TAC CCC GGT TTG AAC GAA

530 540 550 560 570 580 590
TTT ATA ACA AGC CAC TCT TGT GAT AAT GAA CCA ACT CAA ACA ATA AAG ACA TAA ATC CAT TCA TGA
AAA TAT TGT TCG GTG AGA ACA CTA TTA CTT GGT TGA GTT TGT TAT TTC TGT ATT TAG GTA AGT ACT

600 610 620 630 640 650
GGG CAG AGC CCT CAA GGA TGA ATC ACT TCA CTT CTT A ATG GCC TCA GCT TCT AAT ACC ATC ACA
CCC GTC TCG GGA GTT CCT ACT TAG TGA AGT GAA GAA T TAC CGG AGT CGA AGA TTA TGG TAG TGT
M A S A S N T I T

660 670 680 690 700 710 720
ATA GTA ATT CAG TTT CAA CAT GGG TTT TAT AGG GAC GTT GGA ACC ACA GCA AAC TGT AAC CAT TTT
TAT CAT TAA GTC AAA GTT GGA CCC AAA ATA TCC CTG CAA CCT TGG TGT CGT TTG ACA TTG GTA AAA
I V I Q F Q H G F Y R D V G T T A N C N H F>

730 740 750 760 770 780 790
GAT TTC CTT ATT TGC ACC ATT TTA AAA AAA CCT ATT TAT TTA ACG ACT GTT TAT TCA GTG CCT ATT
CTA AAG GAA TAA ACG TGG TAA AAT TTT TTT GGA TAA ATA AAT TGC TGA CAA ATA AGT CAC GGA TAA
D F L I C T I L K K P I Y L T T V V S V P I>

800 810 820 830 840 850
CTG TTG TGT TGG GGA CTA GAG GTA ATT ACA AAG GGA ATA AGA CAA ACA GTC ACC CAC TCT GGT GAT
GAC AAC ACA ACC CCT GAT CTC CAT TAA TGT TTC CCT TAT TCT GTT TGT CAG TGG GTG AGA CCA CTA
L L C W G L E V I T K G I R Q T V T H S G D>

FIG. 2A

850 GCT TCC CTT CGA AGG GAA A S L	870 ATC TTC ATA TAG AAG TAT I F I	880 ATG CAT TTG GTA AAC TAG M H L	890 ATC CTG TG ATT GAC AC TAA I L>	900 CTT TGG CAC GAA ACC GTG	910 ATG AGT CCA TCA GGT AAC	920 TTG CAT CTT GTA GAA
930 GCA TAT TAG CGT ATA ATC	940 TGT CCA GTA ACA GGT CAT	950 AGT TTT TCC TCA AAA AGG	960 TGA CCA ATT ACT GGT TAA	970 GAT AAT ATA CTA TTA TAT	980 ATA GAT ATA TAT CTA TAT	TGG TAG CAG TTT ACC ATC GTC AAA
990 TGT GTA TAT ACA CAT ATA	1000 TTT TAT AGT AAA ATA TCA	1010 TAG ATG TTG ATC TAC AAC	1020 TTG GCA CAT CGT GTA CAC	1030 ACT GTG ACT TGA ACA CAG	1040 TGT GTC TCA AGT CTT TTT	1050 GAA AAA TAC AGT TCT TTT
1060 TGG TTA AAG ACC AAT TTC	1070 ACA GGA GGA TGT CCT CCT	1080 TAC TAC CCT ATG ATG GGA	1090 GAT TTC TCT CTA AAG AGA	1100 GTT CAT TAA CAA GTA ATT	1110 AGA ACA GCT TCT TGT CGA	TGG GGG GAA ACC CCC CTT
1120 AAC CTG ATA TTG GAC TAT	1130 CAA TTA TTT GTT AAT AAA	1140 GAG CAT GTG CTC GTA CAC	1150 GCT TAA AGA ATT TCT AAT	1160 TTA GAC CTA CTG GAT ATT	1170 TAA ACA ATT TGT TAA GTC	1180 CAG GAG CAT CTC CTC GTA
1190 CTT CCA GCA GAA GGT CGT	1200 AAC TGT GTG TTG ACA CAC	1210 AGA ATT CAC TCT TAA GTG	1220 AGA AAT AAA TCT TTA TTT	1230 CCT GGT AGG CCA TCC AAA	1240 TTT GTG CTA CAC GAT ACA	TAT TCA CAT ATA AGT GTA
1250 GGG CTG TTA CCC GAC AAT	1260 ACT CTT TTC TGA GAA AAG	1270 CAT TCC TAG GTA AGG ATC	1280 GTC CTT TAT CAG GAA ATA	1290 TTC CTT GCC AAG GGA CGG	1300 CTC CTC AAT GAG TTA GAG	1310 ATC CTC TTG TAC GAG AAC
1320 AGA TTT TTA TCT AAA AAT	1330 ACT ATA TTA TAT AAT GAA	1340 CTT CTT TAC GAA GAA ATG	1350 AAA GTC ATC TTT CAG TAG	1360 TTC AAA ATG AAG TTT TAC	1370 ATT CAT TTT TAA GTA AAA	TAG CAA CCT ATC GTT

FIG. 2B

5/5

SL5 IMMUNOHISTOCHEMISTRY COMPARISON OF TUMOR vs. NORMAL

	1	2	3	4	5	6	7	8	9	10
A	Adrenal	Adrenal	Adrenal	Ovary	Ovary	Ovary	Ovary	Breast	Breast	Breast
Tumor	(+4)	(+4)	(+2)	(+4)	(+4)	(+4)	(+4)	na	(+4)	(+1)
NC	(-)	(-)	(-)	wp	(-)	(-)	(-)	na	(-)	(-)
Normal	(+2)	(+2)	(+2)	(+1)	(+1)	na		(+1)	na	na
NC	(-)	(-)	(-)	(-)	(-)	na		(-)	na	na
B	Colon	Colon	Colon	Colon	Prostate	Prostate	Prostate	Prostate	Uterus	Cervical
Tumor	(+4)	(+4)	(+4)	(+4)	(+2)	(+3)	(+3)	(+3)	(+4)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+3)	?	(+2)	(+1)	(+2)	(+2)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
C	Kidney	Kidney	Kidney	Kidney	Pancreas	Pancreas	Pancreas	Pancreas	Leiomyo-	Leiomyo-
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG	EDG
Normal	?	?			(+1)	(+1)	(+2)	(+1)		
NC	(-)	(-)			(-)	(-)	(-)	(-)		
D	Liver	Liver	Liver	Stomach	Stomach	Stomach	Lymphoma	Lymphoma	Lymphoma	Lymphoma
Tumor	(+1)	(+4)	(+4)	(-)	na	na	(+4)	(+2)	(+2)	(+1)
NC	(-)	(-)	(-)	(-)	na	na	(-)	(-)	(-)	(-)
Normal	na	na	na	na	na	na	(+1)	(+1)	?	(-)
NC	na	na	na	na	(-)	(-)	(-)	na	(-)	(-)
E	Seminoma	Seminoma	Seminoma	Thyroid	Thyroid	Thyroid	Thyroid	Fibro-	Fibro-	Fibro-
Tumor	(+3)	(+4)	(+4)	(+4)	na	na		(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	EDG	wp	EDG	EDG	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+1)	(+1)	(+2)	(-)	(-)	purk(+)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	na
F	Melanoma	Melanoma	Melanoma	Chorio-	Carcinoid	Chorio-	Basal Cell	Basal Cell	Basal Cell	Germ Cell
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)?	(+1)	(+3)	(+3)	(+1)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG
Normal							(+1)	(+1)		(+1)
NC							(-)	(-)		(-)

FIG. 3

Staining Intensity: -, no staining; + weak; ++ medium; +++ strong staining
 Staining Percentage: 1: 0-25%; 2: 26-50%; 3: 51-75%; 4: 76-100%
 For example: (++) stands for 51-75% of cells have medium staining
 NC: Negative Control; na: no tissue materials on slides

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<110> Zhang, Jimmy
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Carroll III, Eddie
Endege, Wilson O.
Ford, Donna M.
Monahan, John E.
Schlegel, Robert
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<120> GENES AND GENE EXPRESSION PRODUCTS THAT
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<130> 200130.463

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ttaagagacc	atcctggcca	acatgatgaa	accctgtctc	tactaaaaat	acaaaaagta	180
gctgggcgtg	gtggcatact	cttacaatcc	cagctacttg	ggaggctgag	gcaggagaat	240
cacttgaacc	taggaagcag	aggttgcagt	gggccaagat	cacaccacta	tactctagcc	300
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tatttaagac	caatatgggg	tgagatggat	ttttttttta	aaaatcctac	agtaaggctt	480
tctactttcc	ttctaagag	gaaaaagggt	acaaaaattc	aagtgtcaat	gtccccttcc	540
tgggaagagg	tttagaaaaa	caacagctca	ccttctgaac	tctaccagtt	ccttttgaag	600
ttaacgaagc	attaaaatca	gatgtaaaaa	aagaaaaaaa	aaggcaggga	aatatttaca	660
aaactggaca	ttctttacag	atatacaatc	ttgctaatac	tgggagaacc	nttccaagga	720
tgtataaaga	ggagacgnca	ccttagtaat	gccagggata	gagaaaaccc	nggatataat	780
atggggtttt	taatgccgga	acatggngga	aactaggang	agccgagatg	ganctggtcc	840
ctgaagtga	ctggtnagn	tattctgggn	accctcagga	gggccttgca	agtgtgtggg	900
taggnaaaaa	actgggctgg	gcaaactact	tggntncaag	tttttttatg	ggagaccgaa	960
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accc						1024

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<223> n = A,T,C or G

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ntangcgatc	agctattgna	cggaatctct	gtganantga	nnagctnana	tctctccan	180
ggaanaacag	ntccncaang	ctntattnga	gacagagcta	tgacannnnc	ntntntactc	240
ngacagtcct	taggaaccnc	gcaantgana	nngnggngat	gcactagga	nctgncncnn	300
ntagngagcg	agcccggtgg	ataactgccc	tggtacncng	nagctgnaaa	gccgcctgca	360
gaccgaacct	gagactgacg	tcgcctcanc	tatngacnnn	nnccnatnn	tgagtgnaag	420
cgtncatnatg	ngacactcgg	ggccacgat	gcanancgct	ancnncccn	ggngtgncan	480
tnagnnatch	ttgcncatat	tncgatntt	gacatgtgta	atgatngaga	tctcatannt	540
gcactgtgct	tctcatctat	taacgctaaa	ccatgacagt	ttnccttcat	tgccacntnc	600
tttcagtgc	ccnanatntt	atcgctanat	attcnatcct	tcaacngtag	cattnttcct	660
gctnttcttt	nccnaaagca	tcttctttcc	caactcactc	cagggccaaa	tactctcanc	720
cnnctcactn	tangntctcn	gntcacgggc	tttcccgtga	cacgtcatte	aattcccctc	780
gnaagctanc	ccaggcccaa	cttntntctt	cttcaccggn	nntaacttaa	tcctggggga	840
aggnaangcn	nggntcttta	gccttgntcc	agaaccttng	gtagcccccg	ncacaaatcc	900
naaaaacctt	tgcaggtttg	ggggttgga	cccgggncct	tttttcccgg	gtnggggtta	960
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cngg						1024

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<223> n = A,T,C or G

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ccttttgtag	ccttttcctt	tagtctcttc	ttcccgggtg	ttggtaaaaa	gaggtgaatt	180
gacagcctat	gttgaagaca	ctgtgctttt	ctcaagaagg	acatccaaac	agcaagtcta	240
cttctttctc	tttaacgatg	tgctcattat	caccaagaag	aagagtgaag	aaagttaaca	300
cgtcaatgat	tattccttaa	gagatcagct	attggtggaa	tcttgtgaca	atgaagagct	360
taattcttct	ccagggaaga	acagctccac	aatgctctat	tcaagacaga	gctctgccag	420
tcacctcttt	actctgacag	tccttagtaa	ccacgcgaat	gagaaagtgg	agatgctact	480
aggagctgag	acgcagagcg	agcgagcccc	ctggataact	gccctgggac	acagcagcgg	540
gaagccgcct	gcagaccgaa	cctcactgac	ccaggtggaa	atcgttaggt	catttactgc	600
taagcagcca	gatgaactct	ccctgcaggt	ggctgacgtc	gtcctcatct	atcaacgtgt	660
cagcgatggc	tggtatgagg	gggaacgact	acgagatgga	gaaagaagct	ggtttcctat	720
ggaatgtgcc	aaggagataa	catgtcaagg	ctacaattgn	ttaagaatgt	ggagagaatg	780
ggacgcttgc	taggactgga	gaanccacgt	gagncttttn	aangggcctt	tggtactgca	840
agaattgcac	cgacacttac	cgggcttggt	ggttctgggg	ctagttaa	ggnaatttgg	900
cccagncttt	ttaattaaag	gaccggaaac	cntggccttt	aactttggcc	agtggtnccg	960
tntntnatgg	aaaaaacttt	gggtaccccc	gngttgcccc	ggttagtttt	acctaacccc	1020
cccn						1024

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<212> DNA

<213> Homo Sapien

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<223> n = A,T,C or G

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tgtgatcttg	gctcactgct	acctccacct	cccaggctca	cacgacccct	cagcctcagc	120
ctcccaagta	gctgcgacta	caggtgcacg	ccattgcagc	tggctaattt	ttgtattttc	180
agtagagatg	gggtttcccc	atgttggcca	ggctggctct	gaactcctaa	gctcaagcaa	240
ttcacctgcc	tcagcctccc	agagtgctgg	gattactcct	aagctcaagc	aattcacctg	300
cctcagcctc	ccagagtgtg	gggattactc	ctaagctcaa	gcaattcatc	tgctcagcc	360
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ccngaattct	aatatcactt	ttcctttgnc	ataattaaca	attagcgaca	cagaatcgag	720
gggaaaaaca	caggatccgt	ttacttctan	gaanggcgtt	tctgtgaatc	taagaagggg	780
cttttctgng	gtctcaaggn	cacgggtcaa	gccagggtgg	ccgcttgccg	ggtgcgctgg	840
ctggggagaa	acttntcggg	gatnggaagt	gaaannggtt	ccgctggggc	ccccttnttt	900
tgqgaaaccc	caggngngtn	tngcaaaggc	caagggaag	gcctcaaggg	ggggcatgaa	960
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gctt						1024

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<223> n = A,T,C or G

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tccntcctaa	tacnactcac	tataggcggn	agnggccacn	tcnagctngn	gnnngaagtt	120
ggmntgcngt	gnagtctgtg	cctgngggcan	cgctcatgc	atgactttgg	gtcattgctg	180
ctctccttgc	ctttagggga	gggtcctggt	gctctgtgag	cagattngac	cctaggggtg	240
aagtcactcn	gcccctgttc	tgagccgaga	gctggncagg	gngcgtctca	catcattcct	300
ctgcccctgt	ngncgcatgg	gaaatcctaa	acaggctctg	tggnaaangc	tgnnccaagg	360
cgcctcctgg	gcagncganc	catcagnnga	tcgnnagccn	ngaancgatg	gcccgggaaa	420
accaaaccag	gaannaanca	caccgtgcga	aaggnattgg	tgaacgaact	gaaaaattgt	480
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gaacataaag	aaatagccat	ggangattca	cagtgtanct	ngctgancng	ctcatntggc	600
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ttttttgggt	cccaaaaccg	ggccaagatt	gggcttcaaa	aancctttga	accngggggg	840
ncaattntn	gggnttanat	cccccgaaag	gaanngggan	ggtntttnaag	gnaaaaanccc	900
nnccaaggaa	cccnggtttt	gggcnttga	agggnccttg	gncnnggttt	cgaggntttg	960
ncttaactgg	aaggncccna	aagggaacac	cnnnnntttt	tnaagggntc	cccgaacccc	1020
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<210> 6

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gtagatggcc	cagccccaag	tgttccgac	ttcctgcccc	aacatattct	gtgacggaaa	120
gcctatgttg	acctcggtccg	gcactcaagg	cgtgggcagc	ggcctaacgt	ctgctgcggg	180
aacacagtcg	cgttgaatgc	tattctcaag	acagacaaaa	cagtgggaag	acactacgcc	240
aagctgctaa	ctccctggcc	attgccggac	tctttcaccc	ccatggactt	tccgctggca	300
ttttaaacia	catagtctct	tttctctgtc	tctttctctt	tccctctctc	tttctctttc	360
tctctctctc	tctctctctc	tctctctctc	tctcaatctc	ataattttct	tctctcgtgc	420
cacgttcccc	cccaacgctc	tctcgcccac	ttctactggg	gcccaacttc	tctcctgctc	480
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ttcaanacgg	taaagagctg	caactgaacg	tgtgagacat	ggtgcanata	aggctgagag	600
ggcggngggg	gagatgcccc	tgaactcaag	tacctgcccc	ggcngggccg	tcgaaagggg	660
gaattccagc	aaactggcgg	ccgttactan	tggattcngg	ctccgggtaca	ngcttggggg	720
aatcatggtc	aatanctggg	ttcctgtggg	naaattgggt	ntccgggtca	nnaatttcaa	780
nannanatan	naagcncggg	aancataaan	ttgttaaagc	ccnggggttc	cctnaatnan	840
tttgncttar	tnnaacntta	aattngngnt	ttnnncnncan	annngcngnt	ttttcaattc	900
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<210> 7

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<212> DNA

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<223> n = A,T,C or G

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cctcagcctc	cccagtagtt	gggactacag	gcgtgtgcca	ccacaccggg	ctaatttttg	180
tatttgacgt	agagacgggg	tttcatcatg	ttggccaggc	tggctctgaa	ctcctggcct	240
caagtgcac	gcctgcctca	acctcccaaa	gtgctgggat	tacaggcgtg	agccaccgca	300
cctggcctct	atgctcgaat	ttctactctt	agctaactct	tctaacacat	atgcccttca	360
ttgggttaaag	ctggctcagc	agactaatta	cacctgtcat	gtaatacaag	cctctccctg	420
gcctgtatta	tctcatgggt	gccttctatt	tgtgacaagt	gctatgaata	ttccttttta	480
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acatcatgac	aattctggaa	tgtctgaagt	ttgagataga	agattgtcta	agaaaagctg	600
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attggaangg	aatctgggga	tcaatggaac	atacccgga	atactttnt	ttcccccaa	840
ccaaggnaat	ggaatgtcaa	aagtattgga	gcctaattta	aaatggggnt	tcctantaa	900
agntttgctt	tcanttaatg	ggancanttg	gcnanntggt	tttgggnacc	cctgcataat	960
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cccg						1024

<210> 8

<211> 1024

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<223> n = A,T,C or G

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ngcngnnggn	ntnctnttgg	agagntnngn	ngctnanctg	ctatgntctc	ntggatnnnc	180
tntgcccgc	gaaaatnaat	gcgttttgaa	cagttttagn	tttgtgcctc	atanattgtg	240
tnantgctat	ncattatnnn	gnntgcatat	ntantctnna	nngccnncaa	ggcatcgcn	300
atggntaac	atctcaaaac	nccttancct	acanttganc	nntgtggnan	actttgnngn	360
ggnantgtgg	ntaaaagnac	canggggna	atcntggntc	agancnctan	aaagcattgn	420
ttactacaac	tggctcttga	atatccccct	gcgtgatgat	ttgtggtcag	ctgcctacag	480
ttgaatatgc	agcgtnacac	anncnaagct	gccagtgcga	caattaactg	aagcatnact	540
tantntgtaa	ncacnatcta	anttngcatc	agtnctcatg	acatncatta	catgggacag	600
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aagcttttct	tcnccaccct	tctatcttga	acttncanac	gtttccggaa	acnccaanga	900
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nnga						1024

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<222> (1)...(1024)
<223> n = A,T,C or G

accgccctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccct	ttagagtata	60
gtgggtgat	cttgcccac	tgcaacctct	gcttcctagg	ttcaagtgat	tctcctgcct	120
cagcctccca	agtagctggg	attgtaagag	tatgccacca	cgcccagcta	ctttttgtat	180
ttttagtaga	gacagggttt	catcatgttg	gccaggatgg	tctcttaact	cctgccctca	240
agtgatccac	cagagaggag	atcctcggcc	tccccaagtg	ctgggattat	aggcatgagc	300
caccgtgccc	agcctacttt	ctaattaacc	aaaaaaaaaa	aaaaaaaaaa	aaaaaaagcg	360
gccgtgaat	tctattctag	aattaagcgg	ccgctgaatt	ctagacctgc	ccgggcggcc	420
gctcgagccc	tatagttagt	cgtattagga	tggaaggggc	aattctgcag	atatccatca	480
cactggcggc	cgctcgagca	tgcatntaga	gggccaatt	cgccctatag	tgagtcgtat	540
tacaattcac	tggccgtcgt	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	600
cttaatcgcc	ttgcagcaca	tcccccttcc	gccagctggc	gtaatagcga	agaggcccga	660
ccgatcgnc	ttccaacagt	tgcgagcct	gaatggcgaa	tggacgcgcc	ctgtagcggc	720
gcattaancc	gccggcgggt	gtgggtggta	cnccgcancg	tgaaccgnta	cacttgccan	780
ggncctacgg	cccgncttct	ttcgctttct	ttcctttcct	ttnttggnca	cgtttcggcc	840
gggttttccc	cggtnaagct	nttaaattng	ggggcttccc	ntttangggg	tcccgaantt	900
anngccttta	acgggacctt	gganccccaa	aaaactttgg	tttanggggg	angggttcac	960
cgtaannggg	nccatttgcc	ctggntaaac	nggttttttc	ccccnttgac	nttggnanc	1020
cccg						1024

<210> 10
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

gccgtcnaga	nccatgcnnn	agcgnccggc	ngtgtnatgg	nnaantgcag	aanacgncct	60
ncnatectaa	tacgactcac	tatagggctn	gagcggncga	ccggacagng	ntnnnggtgg	120
ctnatgccta	naatcccagn	acttggggag	gccnaggatc	tcctntntgg	tggtacactt	180
gagggcagga	gttaanagac	catcctggcc	aacatgatga	aacctgtct	ctactaaaaa	240

tacanaangt	agctgggcgt	ggtggcatac	tcttacaanc	ccagctactt	gggaggctga	300
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgacg	tgggccaaga	tcacaccact	360
atactctaaa	gggcgaattc	cagcacactg	gcgnccgtta	ctagaggatc	cgngctcggt	420
nccaagcttg	gcgtaatcat	ggacanagct	gttnccctgtg	tgaaatgggt	aancgctnac	480
aanntnacac	aacatacnag	ccggaagcat	aaagngtnaa	gcctggggng	cctaatagag	540
gagctaactc	acattaattg	cggtgcgctc	actgcccgtc	ttncagntcg	ggaaacctgc	600
cgtgccagct	gcattaatga	atcgccacg	cnnggggag	aggcggantg	cgaatgggag	660
cttcttncgn	ttctcgctta	ctgactngat	gcggttcggc	ccattgnntg	cagcaaagcg	720
gnatcngctc	acttnaaagg	cnngnaatnc	cggttntccc	cntgaatccg	ggggattacc	780
gcaggtnaag	aaccatgggg	anccaaaagg	ccagctaaaa	ggggccggga	acccggaaaa	840
aaggcccngt	tggttggcgt	tttttcanaa	ggttccgccc	ccttgaccgn	ngcnttacia	900
aaattnggag	gcnttaagg	cnnaantggg	ggaaaccccc	cgggaaattt	caggntnccc	960
nggggtttcc	cctgggaagt	tncttngggg	gctttccnnt	tcnaaacctg	gcgnttaccg	1020
gnaa						1024

<210> 11
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 11						
gtncgtctag	atgcatgctc	gagcggccgc	cagtgtgatg	gatattctgca	gaattcgcgc	60
ttgagcggcc	gcccgggcag	gtacgcgggg	gggcatttcc	ctgacgactc	gtgtgtgccc	120
tggggggagcg	gtagatggcc	cagccccaag	tgttccgac	ttcctgccc	aacatattct	180
gtgacggaaa	gcctatgttg	acctcgtccg	gcactcaagg	cgtgggcagc	ggcctaactg	240
ctgctgcggg	aacacagtcg	cggtgaatgc	tattctcaag	acagacaaaa	cagtgggaag	300
acactacgcc	aagctgctaa	ctccctggcc	attgccggac	tctttcaccc	ccatggactt	360
tccgctggca	ttttaaaaca	catagtttct	tttctctgtc	tctttctctt	tctctctctc	420
tttctcttct	tctctctctc	tctctctctc	tctctctctg	tcaatctcat	aatttctctc	480
tctcgtgcc	cgttcccacc	caacgctctc	tgcgccactt	ctactggggc	ccacttctct	540
tcctgtctct	tctgtctcaa	cgtgattgac	tttcttgtgc	tgcccaggac	ttcttgccc	600
cgtgcgcctt	caaaacggta	agagctgcaa	ctgaacgtgt	ganacatggt	gcagataggc	660
tgagaggcng	cgggaaaaat	gcccattgaa	ctcaaagtac	tcnngccggc	gancacgcta	720
angggngant	ttcaagcaca	nntggcgggc	cggtactaan	tggattcgaa	cctccggtac	780
caaaagcttg	ggcgtaatc	atgncaanaa	gccgttttcc	ngtnttaa	ttgttnancc	840
gctcananat	tccanacaan	cnattacnan	gccgggaaan	ccaanaaagt	tgtaaaacc	900
ctgggggttg	cnnaatgan	ttgangctaa	ntccnnttta	atttncnttg	cncnaangg	960
ccggttttcc	cattcgggaa	acctgtncgt	nccaanctgn	atttantgaa	tcgggcaaac	1020
tccc						1024

<210> 12
 <211> 957
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(957)
 <223> n = A,T,C or G

<400> 12						
actttttttt	tttttttttt	tttttttttt	tttttagctt	tattttttatt	gttgacacta	60
ttacagatag	aatgaccaca	accatattaa	caaaccaaaa	acctgtgcac	agaaacaaga	120
tgaagaaaat	atatcaagat	gttaaccaca	ctctttggat	gggtgaaaaca	tgggtgagtt	180
tctcttctac	atttctgtaa	cttcaaagtt	tctataatga	acacatttca	tatataatgg	240
aaatatatgt	agtaaagggtg	gactaccaaa	acactagaat	gatgaccttt	caaggaaacc	300
gaaacaaaat	aaccataatc	ccacaacaac	cacacaacta	tttcttggtt	ttcatcttct	360

ttcccatctt	tgacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagtg	420
cacagatcaa	gatgttaaca	gttaattggt	gttgggtggt	gggaatatgt	gtgaattttc	480
tttactgaat	ttccaaagt	ttgtatgagt	atgtantata	tttgtaatgg	aaaatacata	540
cataagaatt	tantacaaa	nacaccaaa	attatttaag	gaatttgaga	caaaaatatt	600
tanccaaatt	cccacaatga	caacaccaan	tttaggtant	ttccacatct	ntttcaaatt	660
taanggcttt	angcacacat	attttaacac	tgggtanccac	aagcngtggt	gcnccggaan	720
caannngntng	agggaaccca	ggtncaagga	tggtnanacan	taagttgtta	anggggttgg	780
gaanannggn	aattttttta	aacanattta	cnttaanttt	ccaagttttt	cnccgggga	840
annttttng	gccaccaatg	ggggncccc	nttatancn	ngtnanccgg	ggacattttt	900
tnnnggggaa	atttnganaa	atttagagt	ngaaangntt	tttaccaan	agtnccn	957

<210> 13
 <211> 1020
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1020)
 <223> n = A,T,C or G

<400> 13						
gtgngtctag	atgcatgctc	gagcggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
ttcgagcggc	cgcccgggca	ggtacccagg	attcaaaagt	catcttcccc	ggcgggaggc	120
aagggaagct	tatggagaac	ctcttaaaga	tattgtgagc	attctactca	ttacttaggg	180
aaagagagcg	ggtgttggtc	caactctggc	ttttgtgcca	ggtaggagtt	ggtcctgagg	240
ccgcccctct	gaccatactg	gacctgtttt	aagggttttc	tctaaaaaaa	ttttagattt	300
gtcaatctgt	gtcctgcag	gggatgctat	gtccaaatgt	cccaggattt	gtttttttct	360
gtctttcctg	agacattccc	tgcccagcta	cccaagggaat	ccttcaaacg	agcaaactctg	420
accatatctt	ctatggtcag	attaaaaatct	tccatggctc	cctattgctt	atgggacaaa	480
atcaaaattc	ctgagtctgg	tctaaaagg	gtttgatgat	cttgacctgc	tgactttgcc	540
agccttcttg	tcagactctc	gtgtcatgct	ccgcctagac	tatgagcctg	ctatttcata	600
ctatgtagct	ttgtaaagtc	ccagaaaatg	ctgggctctg	actcttttat	aactttacat	660
atactgttcc	atctgcctgg	aatgccttct	acttgtctgt	ccagcaaatt	ctcaactcat	720
ctcttaaggg	cccagcttca	attgccgcct	cctancataa	gtcttccctt	gatttccan	780
gcagnaatta	nntcccgcgt	accccgggga	ntcccaatca	gtttgtgctt	tcaaaactga	840
tggnnngact	tccctgaaat	ttgggttacc	ncaaaacgaa	atgggtgaat	ccnnttcccc	900
cgggggggct	gcaattgcac	ccttttttaa	aggggaaccc	tgnaantccc	aatggnttaa	960
atttgacncc	cttaanggen	tnanttcnat	tgagcaactt	naaaaggggt	tttttttttt	1020

<210> 14
 <211> 1013
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1013)
 <223> n = A,T,C or G

<400> 14						
gtgtcgatgc	atgctcgagc	ggccgcccag	gtgatggata	tctgcagaat	tcgccctttc	60
gagcggccgc	ccgggcagg	acctcattag	taattgtttt	gttgtttcat	ttttttcnaa	120
ngtctcccc	ctacnagctc	acctgagata	acagaatgaa	aatggaagga	cagccagatt	180
tctcctttgc	tctcngctca	ttctctctga	ancctaggtt	acccattttg	gggaccatt	240
ataggcaata	aacacagttc	ccaaagcatt	tggacagttt	cttgttgtgt	tttanaangg	300
ttttcctttt	tctnancctt	ttcctgcaaa	aggctcactc	agtcccttgc	ttgctcantg	360
gactgggctc	cccagggcct	aggctgcctt	cttttccatg	tcccacccat	gagccctcna	420
ctagacagct	cantaagcct	ggcccttcat	tctgcgctgt	gttcttctc	ngtgaatc	480
caatacctct	tacctcctct	gcatgcaaa	attctcaagg	attgtcagac	ttcaaacgta	540
acagcagaac	caccagaagg	tccnataaat	gcagtagtga	ccttctcaag	ctgtcaggtc	600
tttaaatagg	atttgggatt	taatgcnatg	tattttttaa	ggaaagaaat	aagagttgcn	660

agtttaaaaa	tgcatgtctt	ttagccaatt	cagaatcctg	cccccaaact	tttttaaaaa	720
gtcaagacag	ataaagcttt	ggggganacg	gaaaaaaann	gnnnaaaaaa	anaaagtact	780
tcgggcggna	acnacgctaa	gggnnaattc	agcananggg	gggccgttac	aagnggggtc	840
nanncccggg	acnaancctt	gggggtttta	caagggcnaa	ancnggttnc	cggggntnaa	900
aattgttacc	cgcnaaaaa	tccanaaaaa	natncgaacc	cggaaancca	taaantntn	960
aancccnggn	ggccnaaggg	agngnnnaac	cccnaataaa	tggnttggnc	cnt	1013

<210> 15
 <211> 951
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(951)
 <223> n = A,T,C or G

<400> 15						
accctagggc	aaatactgag	cagggtaaaa	ttcccagaat	accactaga	agcgtggaat	60
atatcaatat	cctaggaaga	agattcagca	caccaaattt	cccattactg	ataacagctc	120
tgaaggcata	ataagaaagt	gagtgatcag	aagagcagag	aaatgacttg	ttccagtcac	180
tgccatcttg	tttacccttt	cagtggttcc	cttacccttt	tccccactgg	gcatacagct	240
catctctctc	tgagtccttt	tctgctttcc	tcctttgctc	taaacgttcg	agtttcaa	300
tcctcttacg	accagactta	tctcgaaata	cggtttcagc	atattgaaat	tcagctgcaa	360
aggaaaatta	tactcaaata	tcaggatcaa	aatcagaaat	aacattctaa	gagatcaa	420
caaccgcttg	ggattcta	gctagataag	aacttctgca	gccagaccaa	agtagttcct	480
accaacatct	tgggtgcatat	tggcactggg	cccaagaaat	ggcattttcc	tttttttttt	540
ttttgagatg	gagtctcact	ctgttgccca	ggttgaggag	cantgggcgc	gattttggct	600
cactgcaacc	tccacctccc	aaggttcaag	cgattctcct	gtctcaagcc	tcctgagtna	660
gctggggaat	acagggcata	cnacancatg	cctggctagt	tttttttttg	gaattttggn	720
tagagacagg	ggtttcatca	nggttngccc	aggcctggtn	cttggaactn	anagaccctc	780
aggntggatt	caacccaact	tccgggctac	caaaaggtng	ncgngggatt	acangcattt	840
anncaacngn	gccctngggc	naaaatggna	anttttcang	aagggaaagc	agcnntgggg	900
atcccnggnn	naantttcac	caaggcctta	aaccagggnc	gtaaatttgt	t	951

<210> 16
 <211> 1008
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1008)
 <223> n = A,T,C or G

<400> 16						
gtgcgatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcggccgcc	cgggcaggta	cattacttgg	tgttaacatt	gttggcagtg	gtagcccctt	120
ttcagaaagc	aacttgctgt	aagtcagggt	gtccgttcca	accttcagct	agtgaagagg	180
tagtaacaaa	tggtaaacaa	gagaatgatt	gtttaaacct	atctgtggac	acttaatgca	240
actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	gaaatatatt	tacagaacat	300
taagtggaga	aagcaggaca	cgaaagtata	tttatactac	agttataact	caacagttca	360
tttatatgct	gttcatttaa	cagttcattt	aaacagttca	ttataactgt	ttaaaaatat	420
atatgcttat	agtcaaaaagc	tgttggtgtg	ttgttggtgt	aggcttatag	ttgagcatta	480
ttttcttaaa	tttcttgaat	gttctttatg	gtagtgttac	taaaaagtgt	atgatcacat	540
tttcattgtg	aacataat	gaactcatta	tcacacactt	ggaaaataca	gaaaagtgga	600
ggaaaaaaa	tcatatcccc	ancatccaaa	gacatatact	ctcctcttat	cctgttcaat	660
cctggtttcc	ggtgcacaag	gtttatgatt	ataactgtgt	caaaatgtat	aatcaaaaata	720
gctgttacat	taccttgggtg	gnantaaggg	taaatacctt	caccttaaat	ttttcaaaaan	780
gttcccaana	ataaagggtcc	ggataacagt	ggtataagtg	tgtcccaatt	gggggtgcan	840
aatacattcc	cangngggaa	aatttnnaaa	tnaagttaaa	ttatttttaa	aaattttcaa	900
aattcccaan	anctaanaac	taangggnaa	aaacctngat	cgggntnccc	caaacnngtt	960

taantgnnac nccttgggaa aanaagnttt aaaaanggtg gcaaaaag

1008

<210> 17
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 17
gtgncctctag atgcatgctc gagcggccgc cagtgtgatg gatatctgca gaattcgccc 60
tttnnanagg ncgcncgggc angnantctt ccncctntg ccatnannca cggnnanaaa 120
cngcagtggc actaantntg agacaatctt ncaaaccagc ttcagtgcgc tncacttntc 180
nnngtncaag angagggcca ggangggaaa catcacantc gcgctaagnc cngntccggg 240
nngtcagcat nngntctgtt ncaanncccn cgntcggtec cctcatccta ctctgcctcc 300
natgactttg cncctcagac ntentggaac naaggnttcc nggggggcac accgcgtccg 360
gccgnnnttg tctcggggcc acttggcgtg tgtgataaat caatcaagct gttnanntcg 420
nacgagtctc nggtngcctg cananntaag cctcatcctc agagcctttc ctcaaaactg 480
gantccana tgtcatcagg ttntggttnt tttcagccan naggaagccc tcngcattga 540
atccnagaac ttgggcatgg ttnaagatct acaagntnga atacgctgcc cgcnaanaanc 600
nttcaaccct aacaggaagg tnggattcaa ggaagggtga anggnncatt annccacncg 660
ggggnacca gggagntana antanncatn nntttgggtt cgcccnccga agggntttaa 720
ccccggaat tnnntttng ntnaaggggg gnnnnnggna aatccngtt cncatttgg 780
gaaagggann ccttnccttn cnntngcct ntaaaagnnt tancaanacc cggnatnntg 840
tttangggccc cgnntttcaa nggggttaan nnnttngggn aaccccnnc cccaaagnng 900
gnnaanggg gnaattccc aanaaaacng gggggnccct tnnnnnangg gnttcngnnn 960
cccnaaagg nnnentgggg gggnannann gnncnaaaaa gggttcccn nnnnaaattt 1020
tttc 1024

<210> 18
<211> 981
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(981)
<223> n = A,T,C or G

<400> 18
acgcgggaca gagagaaggt taagagcaac aagatgggag gcagctgcat ggaacctgtc 60
ccactgagga agtaaaacag agttttactc ttgttgccca ggctggagcg caatggtgcg 120
atctcggtc accgcaatct ctgcctcctg agttcaagcg aggagcaacc ctacctgatg 180
gactggactt ctgcctggat tggagtttga tcatgcctcc atatgggtgt ttaccaggcg 240
tatgattga acctgagttt gtctcttcaa tacaaggaaa atctctgccg cttagtgatt 300
ttccaagaaa catgagcttc tgcctttcaa tgaggaagat actcagaagt catgttcgag 360
cactccggaa aatgtccttg gagtttcaac atttcttttg tcttccacat ttcattttgt 420
cctgattaaa gaggaagcca agttgctgtt tgtgtggcca tgtgagcagg canggagatg 480
gtggctgcct agaagccaag agaagtggcc tcaagatgaa atctaccttg ctggtactgc 540
ccggggcggc cgcccgggca aggtacnttt tttttttttt gttttttttt ggcaaaaagg 600
ctgtaaagct tttttgggga gaaattttta tgggncaaan tttccaacac aggnagcanc 660
cctgaaacca attttaagcg ggtccttccc ttttaaggct gttnaattgc cccttcaanc 720
ttcctcaagg ngtttttcac cctcccnccg ggattttggn aaaggcccaa aantccntgg 780
gnnaanaagg gacaatctcc cgggnttaaa aaccaattnt ncgggngna accnggttcc 840
ctgggctann cncctttaan ggntnccggg gcccttttgn ggggnaatt ttcaaacggn 900
nccncaatt tctnaggggg naancncct tngggtcann gggncnann cccaagnctt 960
caaancnaa ntcttttggg g 981

<210> 19

<211> 980
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (980)
<223> n = A,T,C or G

<400> 19
actttttttt tttttttttt tttttccgtc tccccaaagc tttatctgtc ttgacttttt 60
aaaaaagttt gggggcagat tctgaattgg ctaaaagaca tgcattttta aaactagcaa 120
ctcttatttc tttcctttaa aaatacatag cattaaatcc caaatcctat ttaaagacct 180
gacagcttga gaaggctact actgcattta taggaccttc tgggtggttct gctgttacgt 240
ttgaagtctg acaatccttg agaatccttg catgcagagg aggtaaagagg tattggattt 300
tcacagagga agaacacagc gcagaatgaa gggccaggct tactgagctg tccagtggag 360
ggctcatggg tgggacatgg aaaagaaggc agcctaggcc ctggggagcc cagtccactg 420
agcaagcaag ggactgagtg aagccttttg caggaaaagg ctaagaaaaa ggaaaaccat 480
tctaaaacac aacaagaaac tgtccaaatg ctttgggaaac tgtgtttaat gcctataatg 540
ggtcccaaaa atggggtaac ctagacttca gagagaatga gcanaganca nagggagaaa 600
tctggctgtc cttccaattt tcaatccgtt atcccagggt aagctgggta ngagggggag 660
ancattngna naaaaatnga aacaacanaa nccagtttac taaatnaagg gaacctgccc 720
cngggcgggc cnccaanggg ccaaatttca ancaacanng ggcgggcccg ttaccaantg 780
gnattccgaa gccncgggta accaangcct ngngttnaat ccagngggnc aaanccngtt 840
tnccngnggt gnaaattggt tancccgccc naanaattcc acancaacga atcngaagnc 900
cgggcnagca tnnangnnta aancccgngg ggggcncaaa agggaatgnn nccanaccn 960
attaaatnct gttgcccttg 980

<210> 20
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

<400> 20
cttggtagcg ngctcggatc cctagtaacg gccgccagtg tgctggaatt cgcccttcca 60
tcctaatacg actcactata gggctcgagc ggccgccggg caggtattca gcggccgctt 120
tttttttttt tttttttttt tttttttttt attgntgaca ctattacaga tagaatgacc 180
acaaccatat taacaaacca aaaacctgtg cacagaaaca agatgaagaa aatatatcaa 240
gatgttaacc acactntttg gatggtgaaa acatgggtga gtttctcttc tacatttctg 300
taacttcaaa gtttctataa tgaacacatt tcatatataa tggaaatata tgtagtaaag 360
gnggactacc aaaacactag aatgatgacc tttcaaggaa accgaaacaa aataaccata 420
atcccacaac aaccacacaa ctatttcttg gttttcatct ttcttcccat ctttgacatt 480
tatgcatact tatcactaac accctaataa tcacagacta gtgcacagat caagatgtta 540
acagttaatt gttgttgggt gttgggaata tgtgtgaatt ttctttactg aatttccaaa 600
gttttgtagt agtatgtatt atatttgtaa tggaaaatac atacataaaa tttattacca 660
aaacacacaa gattatttaa ggaatttgag acaaaatatt taaccaaatt cccacaatga 720
caacactatt ttaggtattt tccacatctt ttcatttaag actttatgcn cncatattta 780
acactgggat ccacaagcgt gtgccctgaa accaggatan nggggaaacn ngatcaagat 840
gttagccagt agtttggtag gnggttgga aatataggga attttttnaa aaaaatttac 900
tttatttnen aaattttccc cttgggnaag ggattatggc ncnccaangg gngccccctt 960
aaanacnctg gttttcngga cctttttttt nggggaccat ttggaaaaaa ttaangggga 1020
aggt 1024

<210> 21
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 21

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cngnngncac	tnaatgcang	ngcnaacca	tgataacccg	agttatgctn	agcanaggaa	120
ctatatgtac	agaaacatta	agtgnggaaa	gccnnacn	anggnanntg	aatactacng	180
tnataactna	ncagaccatt	nanatgctgc	acatttaaca	nnncntncan	acagnanatt	240
ataanngnnt	ananntatat	atgctnatng	accaaagctg	tngaggggtn	gccgttgaag	300
gcnnnnngnt	nagcattanc	atnttacnnc	acttgccctgn	cctntatggc	agggttacta	360
tctttgttac	tgatcacgac	atcantgcca	acntaanacn	aacncnntat	nacacactng	420
nnanagcccc	aatcgngnng	gaacagtatc	ntntcncnc	cancncnaga	catntncnnn	480
cctcttatch	tgancattcn	agnttctgtg	cacaggtnta	tgatnntanc	ngtgncaaan	540
tgnttcttna	aantanttgc	cacatnacct	tngaggantt	atggannaan	actctcactt	600
taaanccnnc	aancgacccc	nanaanactg	tnctgntaac	agtgcanaat	gtgtgatttc	660
atagttntgc	acacacatnc	ccacnggaan	cacagggcgtg	tgactgaac	attntagagg	720
ntacctatct	gccgacacct	aacactacng	gtnacggcaa	gatecggaacc	tntaannggg	780
ttaacncaaa	cnctagggat	accnngggaa	atatgtggcc	caccgtttaa	acccccgaag	840
tgccngtac	ccnggacatt	gttttcgtgn	cggtanttg	gttaaanntg	ggntnaaaac	900
cctaattccc	cctgggggtt	tgccactaaa	tttgaaggac	cttttgccc	tgccaaaatc	960
annaaccctg	gncanaact	ttggggganc	nggnnaggna	gggtnnccct	ttttttccga	1020
aggc						1024

<210> 22
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 22

gtgcgatgca	tgcnagcg	gccgccagt	tgatggatat	ctgcagaatt	cgccttttcg	60
agcggccgcc	egggcaggta	cttttttttt	tttttttttt	tttttttttag	attccacata	120
tgagtaaaat	catgtggtat	ttgacttgcc	ttttaaaaca	cagtgaagaa	tctgtcttac	180
tttattcagg	gtaggagaag	ctacctgggc	tccccataaa	tgaggtgctc	catcccatca	240
tacagcccca	tcatattcag	tgcttcccag	atgacctcct	caggggtgca	gtagccctct	300
atgaagatta	tgcttaggat	aagtatgaga	atgccagtct	tgggcatgct	ctggacatca	360
ctcagcatcc	catcataggt	gaggcccagg	gaggtgacaa	ggacaaaagga	gtggccagt	420
ggatccactt	cctttacatc	aatgccaaaag	accagcagca	tgcactcgga	ggcttcacta	480
aacaacaaag	ggaagtggtc	ttcataat	tttatgacac	tctccaagta	tttctgcctt	540
tgtgatcggc	tccttcattt	gatacttgaa	gagcagaaac	tgcaccaa	cagtcacctt	600
ttcatctatc	tacttctgg	gtaaagactc	actgtctggc	aaggacctgg	taggggtgctt	660
gggactcccc	tccttttggc	tgcnnggagnc	ctcancagat	tgatcta	gaagggaaac	720
aacgaccena	ggggaaggag	cagggctatc	tngagcaacn	ctggggaagg	atttggggtc	780
nccatcatca	ngcagnaaac	tccttcccgg	gggtnccttg	ggnanttaaa	gggatnccca	840
ggaaggagga	nggagggan	agggaggang	agggaaaaac	naggntngga	aaaagggacn	900
cggngggaaa	ttggggntta	tacaccgccn	ncnnnaannn	gggngagnc	ngnngncng	960
tcngngncnn	gnttccnntt	ggnggaagnn	ggnttctcnn	angggncgnn	nnnnnnnnnc	1020
cnnt						1024

<210> 23
<211> 948
<212> DNA
<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(948)
<223> n = A,T,C or G

<400> 23
actttttttct tttttttttt tttttccgtc tccccaaagc tttatctgtc ttgacttttt 60
aaaaaagttt gggggcagat tctgaattgg ctaaaagaca tgcattttta aaactagcaa 120
ctcttatttc tttcctttta aaatacatag cattaaatcc caaatcctat ttaaagacct 180
gacagcttga gaaggtcact actgcattta taggaccttc tgggtggttct gctgttacgt 240
ttgaagtctg acaatccttg agaatctttg catgcagagg aggttaagagg tattggattt 300
tcacagagga agaacacagc gcagaatgaa gggccaggct tactgagctg tccagtggag 360
ggctcatggg tgggacatgg aaaagaaggc agcctaggcc ctggggagcc cagtccactg 420
agcaagcaag ggactgagtg agccttttgc aggaaaaggc taagaaaaag gaaaaccatt 480
ctaaaacaca acaagaaact gtccaaatgc tttgggaact gtgtttattg cctataatgg 540
gtccccaata tgggtaacct agacttcaga gagaatgagc agagnagcaa aggagaaatc 600
tgggctgtcc ttccattttc attccgttaa cctcaagggtg anctggtaaa aggggagaca 660
ttagaaaaaa aatgaancaa caaancaatt actaatgang tacctgcccg gggcggccgc 720
aaagggcgaa ntccaagcac acngggcggg ccgttacaan tnggatttcg aacccggtac 780
caaanctgg gngtaaanca ngggncaana accggnntcc cgggggtgaa aantgtttat 840
ccgccaataa attccaaaaa ancaatanga aaccggaaan cataaagtnt taaaccttg 900
ggggggccca aangantgag ccaaanccca attnaattgg gttggncc 948

<210> 24
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 24
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tggacactta atgcaactgt ttaaaaatga taatcacgag ttatgtagca acgtggaaat 120
atatttacag aacattaagt ggagaaagca ggacacgaaa gtatatattat actacagtta 180
taactcaaca gttcatttat atgctgttca tttaacagtt catttaaaca gttcattata 240
actgtttaaa aatatatatg cttatagtca aaagctgttg tgggtgttgt gttgtaggct 300
tatagttgag cattattttc ttaaatttct tgaatgttcc ttatggtagt gttactaaaa 360
agtttatgat cacattttca ttgtgaacat aatttgaact cattatcaca cacttggaat 420
atacagaaaa gtggaggaaa aaaaatcata tccccaccat ccaaagacat atactctcct 480
cttatcttgt tcattcttgt ttctgtgcac aggtttatga ttataactgt gtcaaaatgt 540
atattcaaaa tagctgttac attacctttg tgggaattatg gttaaatact ttcactttaa 600
ttttttcaaa tgttccctat aataatgtcc tgataacagt gtattatgtg tgtctccatt 660
gggtgtgcata atacataccc agaggaaaaa ttagaaaata aagtaaatta ttttaaaaaa 720
ttacctatat tcccaacacc taacaactac tgnntaacca tcttgatctg ntccctctat 780
cttgggttcag tgcacacgct ttgngaataa cagtgggtta atatgtgtgc cataaaggcc 840
ttaaattggaa aagatgtggg aaaaataact taanaataag ggtggccttt ggggggaaat 900
ttgggttaaaa aattttgggc tcnaaaattc cnttaanaaa acccttgggg ggtttgggna 960
ataaaaatnt taanggangg aatnttcccn ttccantttt nattccttcc tcttcccaaa 1020
actt 1024

<210> 25
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 25

gccgtcnaga	cncatgcncn	agcgnnecgnc	ngtgtgatgg	atatntgcng	aattcgncct	60
tccatcctaa	tacgactcac	tatagggctn	nagnnggcc	ctattncnga	tngaangacc	120
acngccatat	taacaaacca	aaaacctgtg	cacagaaaca	agatgaagaa	aatatatcaa	180
gatgttaacc	acactctttg	gatggtgaaa	acatgggtga	gtttctcttc	tacatttctg	240
taacttcaaa	gnttctataa	tgaacacatt	tcatatataa	tggaantata	tgtagnaaag	300
gnggactacc	aaaacactag	aatgatgacc	tttcaaggaa	accgaaacaa	aataaccata	360
atcccacac	aaccacacaa	ctatttcttg	gttntcatnt	ttcttcccat	ctttgacatt	420
tatgcatact	tatcactaac	accctaataa	tccagactag	tgcacagatc	aagatgttaa	480
cagttaattg	cngntgggtg	ttgggaatgn	gcgtgaattt	tctttactga	atttccaaag	540
ttttgtatga	gnntgtatna	natttghtaan	ggaaaataca	tacatnaaat	ttattaccaa	600
aacaccaaag	attattttaag	gaatttgaga	cnaaatattt	aacccaaatt	ccacaatgcc	660
aacactnttt	taggnatttt	ccacatcttt	tcntttaaga	ctttatgcnc	cccataatgt	720
aacactggta	tcacaaagcg	tgtgcactga	aaccagggat	nnagggaacc	gancaagatg	780
ttncnagnag	ttggtangng	gatnggaaaa	taggnaattt	ttaaannaat	tnacttttat	840
ttccnanatn	tccctttggg	gatgncttat	gcncccccat	gggggncccc	ctttanance	900
ctggtaatca	nggccntttt	ttttggggaa	cttttggaag	aaanttnaag	gggaangttt	960
ttaccataa	tttcccaaaa	ggnanggggn	acncnttttt	ggaanatcct	ttnggcncct	1020
tttn						1024

<210> 26

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 26

gtgcgatgca	tgcncgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcgccgccc	cgggcaggta	cttttttttt	tttttttttt	tttttttttag	attccacata	120
tgagtaaaat	catgtggtat	ttgacttgcc	ttttaaaaca	cagtgaagaa	tctgtcttac	180
tttattcagg	gtaggagaag	ctacctgggc	tccccataaa	tgagggtgctc	catcccatca	240
tacagcccca	tcatattcag	tgcttcccag	atgacctcct	caggggtgca	gtagccctct	300
atgaagatta	tgcttaggat	aagtatgaga	atgccagctc	tgggcatgct	ctggacatca	360
ctcagcatcc	catcataggt	gaggcccagg	gaggtgacaa	ggacaaagga	gtggccagtg	420
ggatccactt	cctttacatc	aatgccaaag	accagcagca	tgcactcgga	ggcttcacta	480
aacaacaaag	ggaagtggtc	ttcataattt	tttatgacac	tctccagtat	ttctgccttt	540
gtgatcggtc	ccttcatttg	atacttgaag	agcagaaact	gcaccaaate	agtcaccttt	600
tcacttatct	cacttctggg	gtaaagactc	actgtctggc	aggacctgta	gggtgcttgg	660
gactctcctc	cttttggctg	ctggagccct	caacaagatt	gatctaattg	gaagggaac	720
caaccnaccg	aanggggang	gagcaggctn	ttctgaagca	ctctggggga	aggattttgg	780
ngtncncnat	catncagcan	gnaaacctcc	cncgggggtg	gccttggnna	ttananggtt	840
agcaaggang	gaggacgnag	gaananggan	gnangnaggg	aaaaagangg	attggaaaan	900
agggancctn	ggtgggaaat	tgggggtttt	nagcaatccc	cnccaaaaaa	ncnaggggaa	960
ccctgttcaa	cccncanggc	cnggnttcca	cttttggaat	ttgaaanttt	cctcaaggaa	1020
ngaa						1024

<210> 27

<211> 935

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(935)

<223> n = A,T,C or G

<400> 27

acgcgggggtg	gggggggtcc	tgggtctttgg	cttctcgact	cggtcctggt	tcgacagcga	60
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acatgtcgcg	gcctgtcaga	aataggaagg	ttgttgatta	ctcacagttt	caggaatctg	120
atgatgcaga	tgaagattat	ggaagagatt	cgggccctcc	cactaagaaa	attcgatcat	180
ctccccgaga	agctaaaaat	aagaggcgat	ctggaaagaa	ttcacaggaa	gatagtgagg	240
actcagaaga	caaagatgtg	aagaccaaga	aggatgattc	tcactcagca	gaggatagtg	300
aagatgaaaa	agaagatcat	aaaaatgtgc	gccaacaacg	gcaggcggca	tctaaagcag	360
cttctaaaca	gagagagatg	ctcatggaag	atgtgggcag	tgaggaagaa	caagaagagg	420
aggatgaggc	accattccag	gagaattccg	gcagcgatga	agatttccta	atggaagatg	480
atgacgatag	tgactatggc	agttcgaaaa	agaaaaacaa	aaagatgggt	aagaagtcca	540
aacctgaaag	aaaagaaaag	aaaatgcccc	aacccagact	aaaggctaca	gtgacgccaa	600
gtccagtga	aggcaaangg	aaaattnggt	cgcacacacg	cttcaaaggc	atcaaanggg	660
aaagaatccn	tctccaaaag	aagaaagatg	agggaaccgg	aaaaccccc	agaaaaggaa	720
aacatctana	agccccccaa	cccagaaatc	tggggataaa	ggggctgaaa	aataaacccc	780
cntttgggga	agnttttaaaa	ttatgaangg	nctggggaaa	aaattttttt	aaaaaannnn	840
nnnnnnnnna	aaaaaanttt	cctgcccggg	ggggcgccnc	naaaggggga	anttcaanaa	900
aaangggggc	ggtttaaaaa	ggggtttcca	ccccn			935

<210> 28

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 28

cttgnnaccg	ccctcggatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcct	60
atctgtggac	acttaatgca	actgttttaa	aatgataatc	acgagttatg	tagcaacgtg	120
gaaatatatt	tacagaacat	taagtggaga	aagcaggaca	cgaaagtata	tttatactac	180
agttataact	caacagttca	tttatatgct	gttcatttaa	cagttcattt	aaacagttca	240
ttataactgt	ttaaaaatat	atatgcttat	agtcaaaagc	tggttggtg	ttgttggtgt	300
aggcttatag	ttgagcatta	ttttcttaaa	tttcttgaat	gttctttatg	gtagtgttac	360
taaaaagttt	atgatcacat	tttcattgtg	aacataattt	gaactcatta	tcacacactt	420
ggaaaataca	gaaaagtgga	gaaaaaaaaa	tcatatcccc	accatccaaa	gacatatact	480
ctcctcttat	cttgtttcatt	cttgnttctg	tgacacaggt	tatgattata	actgtgtcaa	540
aatgtatat	caaaatagct	gttacattac	ctttgtggaa	ttatgggtta	atactttcac	600
tttaattttt	tcaaattgtc	cctataataa	tgtcctgata	acagtgtatt	atgtgtgtct	660
ccattgggtg	gcataataca	taccagagag	aaaaattaga	aaataaagta	aattatttta	720
aaaaattacc	tatatccccc	aacacctaac	aactactgnt	aacatcttga	nctgggtcct	780
ctatcttggt	tcaagtgcac	accgcttgng	aataacaagg	gttaaaaatg	ngngccataa	840
aggtcntaaa	atggaaaagg	atgtgggaaa	aatnacctaa	aaataggggt	ggccattggg	900
gggnaatttg	ggttaaaaaa	tttgggctcn	aaaatncctt	aaaaaaaanc	ctttgggggt	960
tttgggaaaa	aaaaatttta	ggggagggaa	ttttccattt	ccaaatntta	ntccntactc	1020
ntta						1024

<210> 29

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 29

taggatncat	gctcgagcgg	ccgncagtgt	gatggatata	tgcnagaata	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggtcgcccag	gcagggtgcta	acaaaccaaa	120
aacctgtgca	cagaaacang	atgaagaaaa	tatatcaaga	tgtaaaancac	actctttggn	180
tggtgaaaac	atgggtgagt	ttctcttcta	cntttctgcn	antncanagn	ttctataatg	240
aacacatttc	atatgtaatg	ganntntntg	tagtgnaagg	tggaactaccg	gaacactaga	300

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atgatgacct ttcaaggaaa ccgaancaaa ntnaccntan tcccacaana accacannac 360
tattncntgg tnntnatgtt tcttcccatc tttgacattg atgcntactt aggactancg 420
ccctaataat cccagacttn ggcacagatc aaganggtaa cnggtgattg gaggtgggtg 480
gccggaantt ggggtgantg ttntttatgg anttnccann ttttggtang ngattgnnna 540
aaattngaas nggaaacnct tacttnaant tgnttaccnn aacnccnagg atnttttaag 600
gattnggggc cnaaattttt acccaaattc cnncaangcc ancnetgtnt aagtcatttt 660
caaanttttt tcncttaaaag accttaaggc cccctaaggt aacctgggaa tanaaggggg 720
ggcacntggn accagnttcc nagggaacng nnccaagant tttcccntt ntttgtttgg 780
gggttgggaa atnnnnngnaa attttttaaa ggtaatncac ttaatttgcc aaaggaattc 840
ccttnggggg nggnnttatt gcncacccat gggagacccc cntaaggccc cnggaataag 900
ggcctttttt tttngggacc atttgggaaa aatttaang ggaaggcnnt ttgnaccctt 960
aatttcccca aggnaaangg aaccnccnt tttgganatt gcattttngg ccccgttttt 1020
aagg 1024

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<210> 30

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 30

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ctttcgagcg gccgcccggg cagggtacttt aattttgctt gttcaaatga tctacactta 120
cattttgcaa atcttttttt ttaaattttt taaattttat attttttttc cagccaactc 180
aaggccaaaa aaaatttctt aatatagtta ttatgcgagg ggagggggaag caaaggagca 240
caggtagtcc acagaataag acacaagaaa cctcaagctg tgaggccaat ttgtaattaa 300
aagaatacta agattagatg aacacaacac tcagaaatac tctaggagag ctgaaaaaga 360
aggaacagat gttaacaaaa caaattaagg ctgctgggga acctgagtcc atgttaagct 420
tggtttgact gtaaagaatt tttttttttt taatgcaagt tagacatgga gttagagggt 480
cagataaata acgaagagaa ttaagttagc gatagaaaga tctaaggata ctagctcctg 540
ggcacctagg gtgcaaaactg acttggtgca gcataagctg atgctgcaca ggggacccaa 600
gccatgttgc tacttggtcac ttaaggcang aagcgcacaa aggaagtgat gaaagggtat 660
tagcctgcaa cattatttac agcatganag cctctcctac gggccccaac cttcattagg 720
cactactggt gattcaagtg aatgggttgt aaccantcc ttaaaaggca aaggatgtta 780
ggantttaca gggaaaaaag cttccggggg tttancaatt caccaatcan caaaccacat 840
attgaagttt ggttaaaaaa aaaaanannn anaaaaaagt nccctcggcc gngaaacanc 900
cctaaggggg naaattccag canactgggn gggccgntta caaaggggtt cgaaccncgg 960
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<210> 31

<211> 1019

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1019)

<223> n = A,T,C or G

<400> 31

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cttccttgag attactgtag tgtgttccag ctaatttcta tttggaaacg agttggaaca 180
gctgaaaact aggtattatt gaaggcaaag cagcctcacg tcagtttttt atcagctcat 240
ttgggaagtt tttttttttt ttttttttta attaattaga aagtaggctg ggcacgggtg 300
ctcatgccta taatcccagc acttggggag gccgaggatc tcctctctgg tggatcactt 360
gagggcagga gttaagagac catcctggcc aacatgatga aacctgtct ctactaaaaa 420

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tacaaaaagt	agctgggctg	ggtggcctac	tcttacaatc	ccagctactt	gggaggctga	480
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgacg	tgggccaaga	tcacaccact	540
atactctagc	ctgggctgac	gaggtgggga	aaaaagtagg	accctgtcc	tatattcagg	600
tttttctcac	atatatgaac	ccatctaaat	tctacgttgt	taaagggtanc	ttaggttaat	660
taagtccata	cttattttaag	accaatatgg	ggtgaaatgg	gatttttttt	taaaaatcct	720
acagntnagg	ctttccnact	tctcttctnaa	atgaggaaaa	aaagggtgaca	aaaattcaag	780
tgtcaatgtc	ccctcctggg	gaaanagggt	tanaaaaaaca	acagggtcaa	ccttctgaac	840
tnctaacaan	ttcccttnga	aanttaacga	anccattaaa	atcnngattt	taaaagagga	900
aaanaaaaaa	gttcctcggn	cggnnacaan	cctaaggng	aaattccaca	aaaanngggg	960
ggcctttana	aagnggttcc	naccggttac	aaaaccttgg	gnttaaccan	gggccaant	1019

<210> 32
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

accgccctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccct	tgttggtggg	60
tgttggaat	atgtgtgaat	tttctttact	gaatttccaa	agttttgtat	gagtatgtat	120
tatatttgta	atggaaaata	catacataaa	atattattacc	aaaacaccaa	agattattta	180
aggaatttga	gacaaaatat	ttaaccaa	tcccacaatg	acaacactat	tttagttatt	240
ttccacatct	tttcatttaa	gactttatgc	acacatat	aacactgtta	tcacaagcgt	300
gtgcactgaa	acaagataga	ggaaacagat	caagatgtta	gcagtagttg	ttaggtgttg	360
ggaatatagg	taatttttta	aaataattta	ctttattttc	taatttttcc	tctgggtatg	420
tattatgcac	accaatggag	acacacataa	tacactgtta	tcaggacatt	attataggga	480
acatttgaaa	aaattaaagt	gaaagtattt	aaccataatt	ccacaaaggt	aatgtaacag	540
ctattttgaa	tatacat	gacacagtta	taatcataaa	cctgtgcaca	gaaacaagaa	600
tgaacaagat	aagaggagag	tatatgtctt	tggatgggtg	ggatatgatt	ttttttcctc	660
cacttttctg	nattttccaa	gtgtgtgata	atgagttcaa	attatgttca	caatgaaaat	720
gtgatcatta	aacttttttag	taacactacc	aataaaggaa	ccatttcaag	aaaatttaag	780
gaaaaataat	gctcaactat	taagcctacc	acaaccaaca	cccacaacag	cttttggtgact	840
attaagcnta	tatat	acnggtatta	atggaactgg	ttaaatgaac	tggtaaaagg	900
aaccgcatnt	taaatggact	ggtgnggtta	taaccggtgg	tataaaaaana	cctttggggc	960
ctggttttct	ccttaanggt	ctgnaaanat	attttcncgt	ngtccanacc	ncgggatatc	1020
aatt						1024

<210> 33
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

gcctcncaga	cncatgctcg	agcggncgnc	agngtgatgg	atatnnngca	gagnnccgcc	60
ttccancna	atacgacna	ctatagggn	nncnnntng	gcnncttgn	tgccctccn	120
ctcgnataat	anctatatta	acgaaattgt	nctggccttg	agttggctgg	agagaaatat	180
tnngagnnnn	accngtnnnn	ntnngnnatc	ngtaaantgt	aanagtagnt	catttgaaca	240
agcaatnatt	naantacca	ctggnggaaa	ngngnctgaa	tcttactctt	ntggatctgc	300
aggantaggg	cttgt nagta	tgtcaaanat	gcnnncagt	tcaangttta	ngccnattgt	360
aganctngta	gcaggaancn	acnntgangg	ancnncagaa	nggagncctn	anacatnncc	420
agatntacga	ggngagagga	gacanacnga	gaaagacacc	ntaggnncga	nctgnagaag	480
gncaggattc	tgagaatgaa	ntgcncgggn	agtcnnganc	agattggaaa	aggagnttct	540
ganggnatgg	tgcacnngag	ggctgacngg	tangaggnac	tgntgttgga	acgnacatag	600

cgaaagntgn	tgngcagtga	ggattactac	atgnngaaag	gactcttgaa	acgaggaact	660
aactgtgatg	ncanggctga	agtttgggcn	nccatacttt	gnagggttaca	attnttngca	720
gtggnccgnc	cgtttaaana	gccnttttga	tggaaantca	agggtgnncg	gtacnacctt	780
ccntttaggg	nacaaggcnt	tnccgantgg	gtngccagga	agaanganng	ccnnanccct	840
annnggnggg	ccccttaatn	gcacnggggtg	aacaatgcna	accctcgggt	tattggaacn	900
accgnggana	anatggttac	cgaaccatta	ngtgggggna	aaccgggacc	ccggaaggct	960
tttttncct	cngggtaaaa	acttaacaga	ccnatttttt	gcccgccttt	taacangtct	1020
tttt						1024

<210> 34

<211> 982

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(982)

<223> n = A,T,C or G

<400> 34

acaacaatct	aagcaaactct	caaatacaac	atacttgtaa	ttagaacaca	atgcaatgac	60
ttgatttttag	caagaactag	acacttaatt	tggtaaaaga	aaccaaacia	tgcattatat	120
tgaatactaa	gctaagttac	cataattagt	cttaciaaatt	ctcaaatttc	acaactactt	180
ttgaacatct	aaattttaaac	ctaaattttt	taattaaatg	cctgttcaac	aaagctaatt	240
ggaacaaaca	catttatgta	aatttacatt	ctagaatacc	agggtaaaca	aggagacgtt	300
attcaaagat	gaatgagaaa	gttctattct	ttttcatcat	ttgtgtgatc	aggttgcaaa	360
ggacatgtct	tttcctcgat	gaaactgatg	tcgaattagt	ggcagagggtg	gaagaaccaa	420
gcacctttct	gggggctcga	gcagccacca	cttttctgta	agtgcctggg	aacactgtct	480
gcttttagtcc	gcaccatgtt	caaacaagaa	gagaggagag	gagagaacga	actgacttcc	540
cagccgaagg	tgtttctactg	ggacaaggcc	ccgcgttacc	tgcccggggc	gggccgctcg	600
aaanggcgaa	ttccaagcaa	cactgggcgg	gccgtttacn	nagtgggatt	cggngctcgg	660
gtancaaggc	ttgggggtaa	tcaaggggca	atagccgggt	ttcccngggg	tgaaaaatgg	720
tnttccngnc	acaantccca	nacaancatt	ccgaagccgg	gaancntnaa	agtgttaaaa	780
ncctgggggt	ngcccaaagt	angtgngct	naactcccat	ttaaattngc	gnttgcgccc	840
nannggccng	cctttccaat	tnccggggaaa	cctgttnctg	gccaaagtcg	cantaagaa	900
atcncggcna	antccccggg	gnaaaggcg	ggnttgccgt	nttggggggc	gncttccggn	960
tttcccgggc	caaagggann	ng				982

<210> 35

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 35

cttggcccgc	cctcggatcc	ctagtaacgg	ccgccagtgt	gctggaattc	gcccttccat	60
cctaatacga	ctcactatag	ggctcgagcg	gccgcccggg	cagggtataaa	atttaaaaaa	120
tttaaaaaaa	aagatttgca	aaatgtaagt	gtagatcatt	tgaacaagca	aaattaaagt	180
accactggg	ggaaatgtgt	ctgaatctta	ctcttctgga	tctgcaggat	tagggcttgg	240
aagtatgtca	aagatgcagg	gagtgtcaaa	gttttaggaag	attgtagagc	tgagagcaag	300
aagcagaaat	gagtgaatca	aagaaggagg	tcctaataca	tcaccagatc	taggagggga	360
gaggagacag	acagaagaaa	acaccagagg	caagaactgt	agaaggccag	gtttctgaga	420
atgaattgag	cggggtgtcc	tgagcagttt	ggaaaaggag	tttttgatgg	tatgggtgag	480
gtgagggtctg	gctgcatagg	aaggactgag	gttgagcgcg	acatcgggaa	agctgagggg	540
cagtgaaggt	tactacatgg	gaaaaggact	cttgaaacga	gaatcagttg	tgatgtcagg	600
gtgaactttg	tgggtacatt	acttggtgtt	aacattgggtg	gcagtggtaa	gccccttttc	660
agaaagcaac	ttgcttgtaa	gtcanggtgt	ccggtccaac	ctttaactag	tgaaaaggta	720
gtaaccaatg	gtaaaccagg	agaatgattg	gttnaaccct	atctgnggac	acttaaatgc	780

cactggttta	aaaatggnaa	tcacgagttt	tgtanacaacc	ggggnaatat	atttaccgga	840
acctttantg	ggnnaaagcc	ggncnccnaa	ggntttttat	tncttcnggt	tttaacctta	900
acaggtncaa	tttataatgc	cgggccattt	aacaggtcat	ttttaaccgg	gtcnnttttt	960
accnnggtta	aaaaanntnt	atgccttttag	gncaaaaant	ttttnnnggg	gnttnttggt	1020
nang						1024

<210> 36

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 36

taccgcctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccct	tccatcctaa	60
tacgactcac	tatagggctc	gagcggccgc	cgggggcagg	tagcaaagt	tgtggcattc	120
ctcctcctcc	tcaagtcttt	acccgaaact	acttcccaag	agaggttgct	cttcccaaag	180
aatcacctgc	cctgggacca	tatggggcta	ggctgagggg	caggagccaa	gagcctgggc	240
ccaactctgt	ctgtggctta	ctgtgagacc	ctaggcaagt	tgcttaccct	ctctggggct	300
caaattcttc	ctctttgaaa	taggaataat	aacttcatca	ctagaattct	tcacctgggt	360
gttgtgaagt	taatcagaat	aaatgtggag	ataatacatg	aatgagcgta	cagaatatta	420
tttggtgtgt	ctgtggcatc	gatatagggt	atgatagtga	caatagtgtc	tgtcattgta	480
ttccacacca	cttcttccct	cagctaaagc	aggaaaagaa	aggaggttaag	tctctctgtg	540
ttttttcttc	ctttcccca	gccacttttg	ttaccttctt	tggttgctgg	atgagaaatt	600
agtcagaggg	tcagagagga	cctcaacttc	atatgcttta	aatagagcat	atgcaatttt	660
aaaccatcct	cttaaccaat	ttttcttttc	ttttcagttt	ttccccagtt	atacttccac	720
atgatacacc	agagaaggaa	gaccttttct	catactgaag	aacacaagaa	atttgaatag	780
ttcctgcttt	ctgnaccttc	caccaaaca	aacttttcaa	tgatccaaaa	aactggcttt	840
gnactgggga	gtcacggaat	gggccggctt	ccangganca	tggcggnnng	gcctttgcgg	900
ngtcgggcct	gtggtggcgg	cggaaaggna	accgggggca	tggnttnccg	agcctgggtc	960
tgccccccng	ggncatggtg	tggaggcaaa	gaancctgaa	gtccccacng	gcccccgga	1020
agna						1024

<210> 37

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 37

cttggcaccg	cnctcggatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggccgcccgg	gcaggtgaat	tcagcggccg	120
cttttttttt	tttttttttt	tttttttttt	acagggcggc	tttttgtttt	atttctgctt	180
ttttcccttt	ttcttaaaaa	aattaaataa	agttctcatt	atttcccca	tatacatcaa	240
atgagttttc	atgcaaagca	gcagtcacag	aggcagaact	gtccccagct	cgtgcctntc	300
ggcttgaaga	accaccttnt	cccggccccg	ggttctctgg	ngttctcact	gaggatggac	360
gacgcccact	gtctntccca	gctggaactg	gctatgacga	aacttggtcg	gcgtagggag	420
aggagtccct	ccctntcccc	aggatggggg	ctcaggggac	agcaagctct	ggggcctgat	480
ccccatcact	tgnccttcca	tctgagactc	ccagtgtgac	agcttggaac	ggteccctct	540
cccaggaatg	cgaggctcct	cctctcagct	ctcaatggac	atggcattaa	tgagctgctc	600
caccttataa	gccagccgnt	gccgccgtgc	ctgctcatcc	tgtcttaggg	ccccgatgag	660
ctcctcacta	tacttgctga	cataggagta	gatctcattg	ggggcactca	acatgttgaa	720
actccacggn	gtgcaggcgg	gactgctcgg	cgagggtagg	cattcatggc	ctggtcactg	780
gatggctggg	aaccttgggc	aaggctgcgg	nagnatcttt	ttccccagc	tnntggnaac	840
ttgggggaagg	cccttggggc	taaaaagcaa	cttgggttga	anggggaggn	ctttgcccaa	900


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cccgggggct ttggacgttg gaacaagagt nccttgaagg gtttgggncc ccncaaaaa 960
ngcangcntc cgggaaagcc gcccttgggg gtgncaaaac cccnaactgg ggggttnttn 1020
aanc 1024
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<210> 38

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 38

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atacgactca ctatagggct cggcggccgc ccgggcaggt gccgcttttt tttttttttt 120
tttttttttt tttttgcttc acaactgttt attttaagct gaacttcaa tattcattga 180
ttacctataa taatagttac tcataaatgt agttaataat taatataaaa aattattatt 240
tttacattta tataaatctc tgaaaaatac caagttttga gatagagc aagaaattgc 300
ttanaaaatt gcaggaagcc tgaanaatct cagcatcagt caaagcaggt ncaacaaaaa 360
acaatttttag acattcattt tttgctttaa gagtgcttaa aataaatgat cacagaatga 420
ataactgatg tatggcaaaa atgagtttaa aactatgtaa gctccaaggc ccaatgtgt 480
ataagaattc tttggaagga ttttgaagga ctgtaaatgt tgcaataaaa agtaaaaact 540
agtagttagg caatgngttt taaactatag ngtcacctac tgncttctg gtgcctaact 600
gnattcttca acatcttctt tcccttttg attagaaatc ctggtctacc tcaaagggtt 660
tgcattgntt tctagggaca tcagcaaact ggtagaccat atgagaaaca gaaataaaca 720
gtaatattat ctttagaaat taagcattat gtacncagt agaatggat tgacttgata 780
gaccttaaac ccctttcttc ctttcacacc cttntagna ccacctaang gtatccggat 840
tggggatggg gcccncntnt ggtaatcccc cttnagtcag gacagggggc cctaagggcc 900
caattttntt tcgaattaga gaaatncccc attttttggg ggggtggcaa gtnttanccc 960
anggcttgca aaggcttntt tttgaagana cncccaaacc cggggncttn tttttcngga 1020
atca 1024
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<210> 39

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 39

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tcgcccagac agnangcncl agcggncnnc agtgtgatgg ttatngtggn gnnttcgcnc 60
tnccatncta atnctactca ctataggggn cntgngncnc nnggcagtn ntnacnnntn 120
annggtgtaa ctgatatcat ntncnana ccatgggttac atnnanntag gtctcnnang 180
nataccangc tntgagagnt ngaccnggaa ntcgntnga aanntgngc gangcngat 240
caatatccnc atcngncaca gcggnccgc aagctgacaa tncctgnanatt natnttgg 300
tttannganc nnttacangn atggnncccn gagatgcatt nnggagtagt gcaaagatgn 360
ntgtaaaact atgtaagctc naaggcccca atgtgnataa cagttcntgg nanggantnt 420
ganggantgt aagngntnaa nntnaangnn anannnaaga ggtangncat gagcccnaaa 480
ctgtagnnnt anctacagng cttangggcg ctacctggga caggcnacgn cttcattaac 540
cttttgatta gaannacggg ggtaacncac nggttnngca tgggtccagta ggngcattgn 600
ccngcngggc aaccatatgc tngncncaa taaacgggtc ttttanctca nnagattaaa 660
gctttttggc cacaggggna aaagnatggc ttganaggcc ttaaaccctt gtactcngtn 720
caccctttt gagaaaccnc taacgggatc tggaaatgng atggccctt nttgggaaac 780
nccctanaag anacctcngg ngacccttg nggccattt tgangtttag nacngcaatt 840
tnccattttt tngnggtttt gccaaacct agncatnggc tggcaatgga ntgnnttttc 900
caatagaanc aaaccccggn tnttttttgg ggggnatcag ggttaagggn nttggcaaaa 960
nnaaannggc ncnnngnaaa aatttttccc nggtntatcn aaanncccca aagcttttng 1020
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caan

1024

<210> 40
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

<400> 40
nggacgcatg ctcgagcggc cgccagnngn atggatntng tgcagaantc gccctttcat 60
gcctatgata ccngcacttg gngaggccga ggatctcctc tctgggggat cacttgaggg 120
caggagttaa gagaccatcc tggccaccat gatgaaaccc tgtcnctact nnacatacag 180
gaagnagctg gncgngntgg catactctta caatcccagc tacttggnag gntgangcag 240
ganaatcact ngnacctang aagcagaggn tgcattntggn ccaanancac accactatac 300
tntagcctgn acgacagagg tgntgataa agcnggaccc ctgactatat ncaggntttt 360
ctgacntnna nnancncatc taaatnctac gccgtntgag gtcgcntagg ttangtagnn 420
natnctnatt tatgaccaat atgntgtan acggcntnnt gntnaaaant tntacagnan 480
ggcngnctac nttntttata atgnggaaaa cggtgntctga natncangtg nnnngtccn 540
ntntntggna agaggnttng aaanncanca gtgcacctn tgaactctac nagnagcttn 600
tgaagctaac naagcnttaa natnagatgg cntgntagga ctgtacnngc anggaaagat 660
tcacaaaact ggacattctt naccgagata ngntcttgct ttaccgggga ggacnnntcc 720
aaggntgtnt naagagggac agtcagctta gtnntgctng ggtagagaaa accangactt 780
natntgtgag cttgatnngc agaacctggn nanccttgga agagcntnga ttgncngat 840
ccctgaaagg gcnnncttna ccctatcggg gaccttnnna acctcttang tggcacgcaa 900
ggcacnaacc nggcncttt caagaatcnc nggaatcnag gccctttct tgggntnanc 960
cngnnnncc cgttnagncc cncgggnaaa anntcttggg nntttccaat cccngngggn 1020
nttt 1024

<210> 41
<211> 1004
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1004)
<223> n = A,T,C or G

<400> 41
ggtnnntta atcatcgccn gcttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccttag cggccgcccg ggcagggtact tcccaccact ggaaatgtta 120
gcataaaaaga acttgagag gaaaaaagta ttaacaaaac tgcagtctgc actctttaa 180
cctgtttaag gctcttcatc ctggttagca aaagggtgtga atgtaatgtg atggaattta 240
aaagttttat gagaccaggc acagtggctc acgactgtaa ttccagcagt ttaggaagcc 300
gaagtgtgca gatcacctga ggtccggaga ccagcctggc caacatggtg aaaccctgtc 360
tctactagaa atacaaaaat tagccagggtg tgggtggcggg cgcctgtaat cccaactact 420
caggaggctg aggctagaga atcacttgaa cccagcaggc ggagggtgctg gtgagtcgag 480
atcacgccat tgcactccag cctgtgagac aagagcgaaa ctctgtctca aaaagatttt 540
ataagaaagc agagcttttc cttgaagctc ttttgaagtg gtagcttaat tagtattttg 600
ntgaaaatac tttaaagatg cctagtgaag agcctactaa agtgctgtga aaaatggggt 660
ttanaacatt ttattttcan gctttatggc ctattttcca ttgnggcaag tgcaaaacta 720
ccctggccca aangaagggc agagaacata attacctctt anggcacatt tcattctttg 780
cagctttgct taatccagtn gctaagttct ttacctnaac cctgnaggna ttgaacntta 840
ttncatttn ngnaaaaggg tcacctntt nnnacaatnt tncannanct ttttnggaag 900
ttanccnttg gccttaaaan ttnaaaantc cntntggnt tccctttatn ccccnangg 960
gnnnantang gnntggattt ttaanggncc ttggccngaa cccc 1004

<210> 42

<211> 1020
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 42

nnnnnnnnnn	nnnnngattg	ggccctctag	atgcatgctc	gagcggccgc	cagtgtgatg	60
gatatctgca	gaattcgccc	ttagcgtggt	cgcggccgag	gtacctttga	taattcctag	120
acctctattt	tcattctgtg	tattaatgtg	aataacagat	ggatatttta	atatttaagg	180
cagatggtaa	actttcctat	aggtcttgtg	agacttcgtc	ttataggctg	aacaccattc	240
acaaaatgta	ataatgcttc	attccttcag	gttgaggtaa	agaacttgag	caactggatt	300
agcaaagctg	caaagaatga	aatgtggcct	aagatgtaat	tatgttctct	gcccttcctt	360
tgggccaggg	tagttttgca	cttgacacaa	tggaaaatag	gccataaagc	ctgaaaataa	420
aatgttctaa	accccaatct	cacagcactt	tagtaggctt	ttcactaggc	atctttaaaag	480
tattttcaac	aaaataactaa	ttaagctacc	acttcaaaaag	agcttcaagg	aaaagctctg	540
ctttcttata	aaatcttttt	gagacagagt	ttcgtctctg	tcgcacaggc	tggagtgcaa	600
tggcgtgatc	tcgactcacc	gcaacctccg	cctgctgggt	tcaagtgatt	ctctagcctc	660
agccttctgg	agtaagttnng	gaatacaggc	gccccgncaa	cacacctggc	ttaaattttgn	720
atttctagta	naanaccagg	ttttnancat	gttggncaag	gctggtcttc	cggaaccttn	780
angtgatctg	gacacctttg	gntttcctaa	actgggtgga	aattancagc	gggaaccnct	840
ggggcctggc	tcattaaacc	tttaaaatnc	cttnccattc	anttcncacc	ttttggtaac	900
cccgnatgaa	aaccttnnaa	ccgggtttta	agnangcnaa	nnnggggnat	ttgtaaaact	960
ttttcccent	tccaagtent	ttaagccaan	nntttncng	gnnnngggan	ccctnccggc	1020

<210> 43
<211> 1020
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 43

ggagnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggactct	tttactgctt	tgtcttcaag	120
gcctagtgtg	ataattaaca	tctagtatgt	gtttgatgga	tagccaattt	ttgcttcatt	180
ggtatgttgt	taccacagtc	attggtagag	tcaatatatg	aatgaagaaa	gtataacaaa	240
tttgccctct	agtagagtac	tttttttttt	tttttttttt	ttttgttttt	tttttttttt	300
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	360
tttttttttt	ngnnnttttn	ncnttttttn	aannaaaaan	cggcccnann	accnccnnc	420
nnnttttttt	nnccnggccnn	ccnggnttng	gggnngggnn	cnttnngggc	cnnnnggncn	480
cttttttccn	naagggtttt	ggggttttng	gggnaaantt	tnggnncnan	nnnggccna	540
aaaaanttnn	gnccnanaan	cgcnntttcc	nannnnnttn	cnttggggcc	caaaaanttn	600
cgnaaccccn	tgggcnnaaa	gggcnttgnt	ttttttgggg	nncccnaaac	canggggggg	660
cnnaaaaaat	gncccttgaa	nttttttaaaa	aaccctntgg	naaaancccc	nnnggttccc	720
ccnnnnnccc	ttanttttnn	acanaanggn	nnaaangggg	ncccnnaaaa	naccttngg	780
ggcctttttt	tnacaaattt	gggnttttnn	aaaggggttt	tnnggggggc	cctntatncc	840
ccnaaaaang	aaagggnnnc	ccccccnnn	nnnnnnnncc	cnaancccc	ggnnnttttn	900
ccnggggggg	cccnnaaaaa	gggggnaant	ttnggnaaan	nccnnnnncn	gggggggnccn	960
ttnaaanntc	nntttnanng	gggcccnnnn	nnccccnnnn	annggggggg	nnaaaaaccn	1020

<210> 44
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 44
nnngnnnnnn nngattgggc cctctagatg catgctcgag cggccgccag tgtgatggat 60
atctgcagaa ttcgcccttt cgagcggccg cccgggcagg tacgcggggc tcggcgctgc 120
ctacggaggt ggcagccatc tccttctcgg catcatggcc gccctcagac cccttgtgaa 180
gcccaagatc gtcaaaaaga gaaccaagaa gttcatccgg caccagtcag accgatatgt 240
caaaattaag cgtaactggc ggaaacccag aggcattgac aacagggttc gtagaagatt 300
caagggccag atcttgatgc ccaacattgg ttatggaagc aacaaaaaaa acaaagcaca 360
tgctgcccag tggcttccgg aagttcctgg tccacaacgt caaggagctg gaagtgctgc 420
tgatgtgcaa caaatcttac tgtgccgaga tcgctcacia tgtttcctcc aagaaccgca 480
aagccatcgt ggaaagagct gcccaactgg ccatcagagt caccaacccc aatgccaggc 540
tgcgcagtga agaaaatgag taggcagctc atgtgcacgt tttctgttta aataaatgta 600
aaaactgcaa aaaaaaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnannna aannccnnnn aaanannnn nnnnaaaaag 720
gcttntttta angggcaa at tgggaaacct ttttnattca aaaatggctt ttnccangga 780
ctggggacca nnttnccng gggnccaaaa ttgggntttc ctttaanccc nttncnnaan 840
gggaattttt ncccttgggc cttgaaaaac naagcnnnna aaaagncctt tgggnnggaa 900
accctttng ggggaatttc cncncnttg ggggggcnnt nttnnnnggg acccnanttg 960
gncccaantt ttggggaaaa nnnnggnnaa aaagggnnnc cctgggggaa aatgttnccc 1020
ccca 1024

<210> 45
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 45
ggagnnntn aatcatacgc cagcttggtta ccgagctcgg atccctagta acggccgcca 60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtacggcgca ttttgtgcac 120
acaaaatgtg cgcacacaca cacacacaca cacacagaca ctctgcaca tggcctgtta 180
aagaactaca agggaggtgg gacgcgggaa agtgatattg gtgggtttgc atcgtctcat 240
cattgattct tctcatattt ttctctgatt agagaaacta aagagaattt tgtgagaaag 300
gcttgaaagt taatgagtta cttctaccaa agtgattaca agcagaaatc ctcagatgct 360
gtagagatgc tgaccacac atccttagct caaggaagcc cctcgcatta gtcacctca 420
gccatcagca gcctccacca ttaaccccag tgtgctgtat aaaaaatact ttctacatgt 480
gccc aaattt gaaaagttag gaagcactga tttcaaagca aatcattcac atttgaactg 540
tcttcagtgt acctcgccg cgaccacgct aagggcgaat tctgcagata tccatcacac 600
tgggcgccgc tcgagcatgc atctagaggg ccaatttcgc cctatagtga gtcgtattac 660
aattcacttg ccgtcggttt tacaacgtcg tgactgggaa aaccctgcg ttaccaact 720
taatcgnnt ggagcacatt cccnttttg ccnactggcg taattaacca aaaaggnccg 780
gaccgaatcg gccntttcca acaagtggg ccaacctgaa tnggcnaaan ggcccccccc 840
tgtaaccggn gccattaaac ccccgncggg nnnntngggg taccaccaac ggggaccggt 900
taacttgccc anggccttaa ggcccggtcc ttttggtttt ttncctttcn tttttngccc 960
ntttncngg nttttcccg aaagntntaa aaaggggggg tccccnttta ggggtcccaa 1020
taaa 1024

<210> 46
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 46

nnngnnnnnn	nnnnnnngaa	ttgggcccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	60
atggatatct	gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtacact	gaagacagtt	120
caaatgtgaa	tgatttgctt	tgaaatcagt	gcttcctaac	ttttcaaatt	tgggcacatg	180
tagaaagtat	tttttataca	gcacactggg	gttaatgggtg	gaggctgctg	atggctgaag	240
gtgactaatg	cgaggggctt	ccttgagcta	aggatgtgtg	ggtcagcatc	tctacagcat	300
ctgaggattt	ctgcttgtaa	tcactttggg	agaagtaact	cattaacttt	caagcctttc	360
tcacaaaatt	ctctttagtt	tctctaata	gagaaaaata	tgagaagaat	caatgatgag	420
acgatgcaaa	cccacaccat	acactttccc	gcgtcccacc	tcccttgtag	ttctttaaca	480
ggccatgtgc	aggagtgtct	gtgtgtgtgt	gtgtgtgtgt	gtgcgcacat	tttgtgtgca	540
caaaatgcgc	cgtacctgcc	cgggcggccg	ctcgaaaggg	cgaattccag	cacactggcg	600
gncgttacta	agtggatccc	gagctcggtg	ccaagcttgg	cgtaatcatg	gncatagctg	660
nttctgtgtg	gaaattggta	tccgctcaca	attccacaca	acatacgagc	ccggaagccn	720
taagtgtaaa	agccctgggg	tgcctnatga	gtgagctaac	tccattaaat	tgcttgccg	780
ctcactggcc	ggtttcagtc	cggnaaanct	gcggncnact	gcantaatga	atcggncaac	840
gcccccgga	aaaaagcggg	tgcgaattgg	gccctntttc	cctttcttgg	ttaatggact	900
ccntnngnct	tnggccttcc	ggnttnggnn	naacgggatt	aanttnnnnt	naaagggggg	960
naanacgggt	ttncnana	aatcnggggn	aaacccccng	gaaanaaacn	ttggncccaa	1020
nggc						1024

<210> 47

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 47

ggngnnnnnn	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcgcc	cgaggtgcat	ctgaacattg	ccaagcccta	120
ggacattccg	tagagcttgg	ggattctgga	ccaattgggt	cagacaggac	acgaaatgcc	180
tgtttgatgg	gttctgcaat	taaacaccca	actactctct	tttcatcaga	tataaaaaga	240
aaagttttta	ttttgtttgg	acatttagga	acaacttgct	ggaagcccaa	ttcattatca	300
acaagtctct	ggacatcttc	tacctttttg	atagcaaagc	ttggatcatg	tggcagaacc	360
aacacgattt	tcccatccca	aaactctgct	actacacggt	ctttcttcca	accacatat	420
ttgattcctt	ccagaaacct	gtggtgatgc	tgtacctgcc	cgggcggcaa	gggcgaattc	480
tgcagatata	catcacactg	gcggccgctc	gagcatgcat	ctagaggggc	caattcgccc	540
tatagtgagt	cgtattacaa	ttcactggcc	gtcgtttttac	aacgtcgtga	ctgggaaaac	600
cctggccggt	acccaactta	atcgcttgc	agcacatccc	cctttcgcca	gctggcgtaa	660
taagcgaaga	ggcccgnacc	gacgcctt	tccaacagtt	gccgcagcct	gaatggcgaa	720
tggacgcccc	ctgtanccgg	cgcattaaac	cgcgcggcgg	tnnttggggg	acccncacg	780
gggaccggta	cactttgnca	agggccctaa	cggcccgggc	cntttcgctt	tcttnccttt	840
cntttnttgg	ccacgttngn	cggggttttc	cccgtnaagc	ttttaaaatn	gggggcttec	900
cnttttaggg	gttcnaatt	aanggcttta	cgggaccctt	gacccnaaa	aaactttnnn	960
tttnnggggg	gnggggntnc	ccntaggggg	ccattgnccc	ttgnnaaaaa	anggttttn	1020
nncc						1024

<210> 48

<211> 1017

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1017)

<223> n = A,T,C or G

<400> 48

gnnnnnnnga	ntgggcccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttgccgc	ccgggcaggt	acagcatcac	cacaggtttc	tggaaggaat	120
caaatatgtg	ggttggaaga	aagaacgtgt	agtagcagag	ttttgggatg	ggaaaatcgt	180
gttggttctg	ccacatgac	caagctttgc	tatcaaaaag	gtagaagatg	tccaagaact	240
tggtgataat	gaattgggct	tccagcaagt	tgttcctaaa	tgtccaaaca	aaataaaaac	300
ttttcttttt	atatctgatg	aaaagagagt	agttgggtgt	ttaattgcag	aacccatcaa	360
acaggcattt	cgtgtcctgt	ctgaaccaat	tggtccagaa	tccccaagct	ctacggaatg	420
tcctagggct	tggcaatggt	cagatgcacc	tcggccgcga	ccacgctaag	ggcgaattcc	480
agcacactgg	cggccgttac	tagtggtacc	gagctcggta	ccaagcttgg	cgtaatcatg	540
gtcatagctg	tttcctgtgt	gaaattgtta	tccgctcaca	attccacaca	acatacgagc	600
ccggaagcat	aaagtgtaaa	gccctggggg	gcctaataag	tgagctaact	cacattaant	660
gcgttgcgct	cactggccgc	tttccagtcn	ggaaacctgt	cgtgccagct	gcattaatga	720
atcggncaac	gcgccgggga	aaaagcggtt	gcgtaattgg	gcgctctttc	cgctttcttg	780
nttacttgac	tccttgggct	tcggccgttc	ggntgcggnn	aacggnattc	aacttactca	840
aaaggcggn	atacggtatt	ccngnaatc	nggggataac	ccccggaaan	aactttgacc	900
naaaggcccc	caaaaggccc	ngaaccgna	aaaaagggcn	cgnnnnnnnn	ggggtttcct	960
aaggttccgg	ccccctggnn	aggtttccca	aaaatngnnn	ccttnnnnn	nnnnngg	1017

<210> 49

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 49

ggngnnnnnn	anatnaaacg	ccagcttggt	accgagctcg	gatccctagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tgagctggcc	gcccgggcag	gtactgaaat	tactctgaat	120
tcagaaatgt	aagtatatgc	agctaggtca	taaagacact	gctttagaga	agacatgtat	180
tagtggaatg	gaacaggtaa	catctttgag	aagtcaatga	gttctgcatg	cagggatttc	240
accatcggaa	tgatggcaag	aatgatgcct	gcctgtgtgc	ttctcagagg	acgtataaag	300
ccactgagga	tgagtgctac	agtgcctgtg	aattgtgggg	ccacagacat	ttaagttggc	360
attgcttttc	tcctcctctg	cttaatccac	ctttataaat	atggcagatg	gcttaagaca	420
ggcatcatca	gcactctctg	agatgtgggc	tcagagggga	agtggggggc	gtggggggtt	480
ccactagagg	gaggggaagt	tctgtttccc	atgtgttagt	tgtagtgtgc	tttgtgcttc	540
accagaaaag	aggtagagtg	cgcaccttca	cactaagagc	ccgaaattgt	gggtcagtac	600
tttttttttt	ttnnnttttt	tggtnttttt	tnnnnnnnnn	nnnnntnnnn	ngnnnnnnnt	660
tnnnntnnnn	ngnnnnnnnn	nnnnnnnnnn	ttntntnngg	nnnncncttn	nnnnnnaann	720
nngnnnannn	ncnnnnnnnn	tngnnnnnnn	nnnnncnttn	ngggnnnnang	ncccnannnn	780
nccnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnccnannn	nnnnnnntnn	840
nnnaanncnn	tnnnnnnnnn	nnnggnnnnn	nnntttnnan	nnnnnnnnnn	nngnnnaann	900
nnnnnnnnnn	nnnnnnnnna	annnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	960
nnnnnnannn	nnnanngggg	nnnncccnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnttt	1020
nngg						1024

<210> 50

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 50

ggagnnnnntn	ntnncngant	gggccctcta	gatgcatgct	cgagcggccg	ccagtgtgat	60
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ggatatctgc	agaattcgcc	cttagcgtgg	tcgcggccga	ggtacactga	cttgagacca	120
gttgaataaa	agtgcacacc	ttaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	180
aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	240
aaaaanaana	ntaaaaaaaaa	tttnaaggta	aagntnnncnn	ntnaaaatct	tttaggggna	300
tccttatann	nnttttcggn	tntttnnngg	ntngncctct	nntnccnnnt	tttttnggna	360
ancccnnaann	cccngnctta	ccnatgngn	cananttaaa	anggtncntt	nttnngngga	420
nctcannncc	cccgcctttt	tnntnngggg	ggnttnncca	nngnggggna	aatgcncngc	480
tnatnaanan	gggnttnntc	cnaaatnngn	naancctga	ggnggnaanc	ntnntggnc	540
tnntncngat	tnngnnaccc	ccnncngcag	anntccttgn	nnccttantn	ccgggggnta	600
nacccttcct	ttaaaancnc	nntgntntna	aaaannnttt	ncctgancna	tcgggntaaa	660
ncnnnttttt	tgaaaaccnn	ggcttttttn	aanangctcc	gntnggcnaa	ctttggggaa	720
naaggntttt	tttaaggcct	tgcttttttag	ggccanccta	angngannnn	ncngttgnct	780
tgnnngatgg	tttttagggg	ttcccggtg	ggacnttnt	tggggggaaa	ttttggncn	840
aggggntccc	ctnnaagaaa	tccnnnttcc	nggncncnaa	ttncnnaaaa	aattnngggg	900
ccnaaanntt	tnattgggaa	ggnccttttg	tgccccnt	aaanggnccn	naaaccttta	960
aanggggggn	gcntttaatg	gncctttcn	ggncnnaaaa	aaanggggnc	ccccnnttt	1020
nagg						1024

<210> 51
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 51

gngnnnnntt	aactcccgt	tggtaccgag	ctcgatccc	tagtaacggc	cgccagtgtg	60
ctggaattcg	cccttagcgt	ggtcgccc	gaggtacttt	ttttttcttt	tctttctttt	120
tttttttttt	tttaattttt	gagatggagt	tttgcctctg	ttgcccacgc	tggagtgcga	180
tggcgcaatc	ttggctcatt	gcaacctcca	cctcccggat	tcaagcgatc	cttctgcctt	240
agcttcccaa	gtagctggga	ttatagacgt	gtgccaccat	tcccagctga	tttttgtatt	300
tttagtagag	atgggggttc	accacgttgg	ccaggctagt	ctcgaactcc	cgacctcatg	360
tgatcctccc	accgcagcct	cccaaagtgc	tgggattaca	ggcgtgagcc	accatacccg	420
gttgattgta	gacttttgat	tggtattttac	aaggacccat	gagaggcaac	aaagagaagt	480
tgtcaagaga	acagaccctg	agaccaatag	tttggtcaa	gctctggctc	cctaacttcc	540
taccagtttg	accttgggca	agttacctaa	catctttgtg	cctccatttt	ctatttgtaa	600
aaggaaaacta	atagtagtgc	ctactttata	atagagttat	tacaaatatt	aaatgagtta	660
atatttgtaa	agtaattaga	aaaatgcctg	gcacttcaaa	agcagccttc	atttattctt	720
tggaaataat	tttaaatgaa	ttcaagggtt	atatgtagct	tttaggcata	tatncctaaa	780
tggcactgta	aaactgcana	aatatccgat	ctttaaaaat	ttttgggtaa	atttatcata	840
atatggnaac	caaatcccat	ttaatggctt	ttaggggtan	ccgatnaaaa	ccngaagttt	900
gcagtttaag	ccncttatgg	aangggaccc	gaaattccaa	gganccann	gggaaaaaac	960
cccngagga	atnttggccg	ntttaantta	aancctttgg	gtnttttaag	nncctaaaaa	1020
nttt						1024

<210> 52
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 52

gngnnnnntt	tnngnttcng	antgggccct	ctagatgcat	gctcgagcgg	ccgccagtgt	60
gatggatata	tgcaaatc	gcccttcgag	cggccgccc	ggcaggtact	tcaaaactat	120
tcataagcaa	aatcagtgt	caaaaatatt	tagtaactta	aaaaaaacaa	aaagtataag	180

tagagacgga	caagaactcc	tccctgcttcc	tcccactggg	ctcatcgat	ttctgttcca	240
ttacataaga	gactaaaact	gacaaaactct	gttttatcgc	taacaccta	aagcaataaa	300
tgtgatttgt	taccatatta	tgataaaaatt	taaccaaaaa	attttaaaga	tcggatattc	360
tgcagtttac	agtgacattt	atgtatatat	gcctaaaage	tacatatata	ccttgaattc	420
attttaaatt	atttccaaag	aataaatgaa	ggctgctttt	gaagtgccag	gcatttttct	480
aattacttta	caaataattaa	ctcattttaat	atttgtaata	actctattat	aaagtaggca	540
ctactattag	tttcctttta	caaatagaaa	atggaggcac	aaagatgtta	ggtaacttgc	600
ccaaggtcaa	actggtagga	agttaggagg	ccagagcttg	agccaaacta	ttggtctcag	660
gggtctgttc	tcttgacaac	ttctctttgn	tgcctctcat	gggtccttgt	aaataccaat	720
caaaagtcta	caatcaaacc	gggtatgggg	ctcacgcctg	taatcccagc	actttgggga	780
ggctgcggtg	gggaggatcc	ccatganggt	ncggagttcg	agactagcct	gggccaacgt	840
ggnggaaacc	ccatctntac	taaaaattcc	aaaatcanct	ggggaaggng	ggcacacgtc	900
tataatccca	cttccttggg	aagcttaagg	ncnnaaggac	gcttggaac	ccggaanggn	960
gnggttcaat	ggancccaaa	atgngccatt	ggnctttcnc	gngggccaac	angagccaaa	1020
ntcc						1024

<210> 53
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 53						
gggnnnnnnn	tnncttaacg	cccgnnttgg	accgagctcg	gateccctagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcgggccgagg	tacattactt	ggtgttaaca	120
ttgttggcag	tggtagcccc	ttttcagaaa	gcaacttgct	gtaagtcagg	gtgtccgttc	180
caaccttcag	ctagtgaaaa	ggtagtaaca	aatggtaaac	aagagaatga	ttgttttaac	240
ctatctgtgg	acacttaatg	caactgttta	aaaatgataa	tcacgagtta	tgtagcaacg	300
tggaaatata	tttacagaac	attaagtggg	gaaagcagga	cacgaaagta	tatttatact	360
acagttataa	ctcaacagtt	catttatatg	ctgttcattt	aacagttcat	ttaaacagtt	420
cattataact	gtttaaaaat	atatatgctt	atagtcaaaa	gctgttgtgg	tgttgttgtt	480
gtaggcttat	agttgagcat	tattttctta	aatttccttg	atgttcttta	tggtagtgtt	540
actaaaaagt	ttatgatcac	attttcattg	tgaacataat	ttgaactcat	tatcacacac	600
ttggaaaata	cagaaaagtg	gaggaaaaaa	aatcatatcc	ccaccatcca	aagacatata	660
ctctcctctt	atcttgntca	ttcttggttc	tgngcacagg	tttatgatta	taactgngtc	720
aaaatgtata	ttcaaaatag	ctggtacatt	acctttgngg	nattatgggt	aaatctttca	780
ctttaatttt	ttcaaaggtc	cctatnataa	tggcccggat	aaccgnggga	tttaaggggg	840
ctcccatggn	gggcataatn	catacccnga	ggaaaaattn	naaaattaag	gnaantattt	900
ttaaaaaatt	ncctatatatt	cccaaaacct	aacaactact	ggtaaaaatn	ttggaccggn	960
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ctaa						1024

<210> 54
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 54						
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tttttttttt	ttacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagtg	180
cacagatcaa	gatgttaaca	gttaattgtt	gttgggtgtt	gggaatatgt	gtgaattttc	240
tttactgaat	ttccaaagtt	ttgtatgagt	atgtattata	tttgtaatgg	aaaatacata	300

cataaaattt	attaccaaaa	caccaaagat	tattttaagga	atttgagaca	aaatatttaa	360
ccaaattccc	acaatgacaa	cactatttta	gttattttcc	acatcttttc	atttaagact	420
ttatgcacac	atatttaaca	ctgttatcac	aagcgtgtgc	actgaaacaa	gatagaggaa	480
acagatcaag	atgtttagcag	tagttgtag	gtgttgggaa	tataggtaat	tttttaaaat	540
aatttacttt	attttctaata	ttttcctctg	ggtagtgatt	atgcacacca	atggagacac	600
acataataca	ctgttatcag	gacattatta	tagggaacat	ttgaaaaaat	taaagtgaag	660
gtatttaacc	ataattccac	aaaggtaatg	taacagctat	tttgaatata	cattttgaca	720
cagttataat	cataaacctg	tgacacagaaa	cnagaatgaa	cnngattaga	ngagagtata	780
tgtcttttga	tgggtggggat	atgaattttt	cctncacttt	tctggatttt	nccagtgtgn	840
gaaaaatgag	ttccaaaata	tggtencaat	ggnaaatgng	ancntnaacc	tttttagtanc	900
ccttnccttn	aggaacattt	caggaaantt	tannaaaata	anggctcaac	tttttaggcct	960
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taan						1024

<210> 55

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 55

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taaaaccacc	tgaggagcct	cttgatggtg	agtcaggctg	ttcctcgaag	agtaggctgt	180
gactgccaaa	ctttgtaggt	taaggagtat	ttataatgat	ctttgaggaa	actgcaactg	240
acaattgagg	gaaaaaaatg	ttagttcatg	actgcaaaat	acatgacaga	atcacaaaaa	300
ctattttaca	agtttaaaaa	acaaacctga	tgctgatgca	tggcaggcga	accccaaagt	360
ggggcttagc	ctgcaagggt	tcttggtctc	acccaggaaa	ggattcaagg	gcaagccagt	420
ggtaagggtg	aagaaaacac	ctttatcaaa	gcaacactgt	tacagctcct	gtgggggtcac	480
agctcagtga	ctgctcccag	ggttgcccc	taggcagggt	gccgagagta	gcagctgagc	540
ccagttttgc	agtcatatgt	atacctactt	ttaattacat	gcagattcag	gggtgggttg	600
cgcagaaatt	gttaggaaaa	gggtggtaac	ttttgggtca	tcaggtcatt	gccgcttaaa	660
gtggtggtaa	tgcttgagtt	ttgccatggc	aatggtaaac	tgacaaggca	cgctgcttgg	720
tgtgtcttac	agaaagctgc	ttncgctctg	nccttggtta	nctagccctc	gancntttgg	780
ttgtaaata	accaagagaa	gtcaccggcc	cttggtgttt	tcttcccaga	agtacccttg	840
ggccgggaan	cacgcttaag	ggccaaatc	ttgcagatat	ccatnacact	tggcnggncc	900
gnttcancct	tgcattttta	aagggcccaa	tttgncctt	taaanggagt	cgantaccaa	960
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<210> 56

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 56

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aacgccaagg	ccgtgactct	cttgctcatt	tacaaacaaa	agatcgaggg	ctagctaaac	180
aaggacagag	cggaagcagc	tttctgtaag	acacacccag	cagcgtgcct	tgctagttta	240
ccattgccat	ggcaaaactc	aggcattacc	accactttca	gcggcaatga	cctgatgacc	300
caaaagtta	cacccttttc	ctaacaattt	ctgcgcaaac	caccctgaa	tctgcatgta	360
attaaaagta	ggtatacata	tgactgcaaa	actgggctca	gctgctactc	tcggcaccct	420

gcctatgggg	caaccctggg	agcagtcact	gagctgtgac	cccacaggag	ctgtaacagt	480
gttgctttga	taaaggtggt	ttcttccacc	ttaccactgg	cttgcccttg	aatcctttcc	540
tgggtgaagc	caagaaccct	tgcaggctaa	gccccacttt	ggggttcgcc	tgccatgcat	600
cagcatcagg	tttgnttttt	aaacttgtaa	aatagttttt	gtgattctgt	catgtatttt	660
gcagtcatga	actaacatth	ttttccctca	attgcaagtt	gcagtttcct	tcaaagatca	720
ttataaatac	tcntaacc	tacaaagttt	ggcaagtcac	agnctactct	ttgaggaaca	780
agcctgactt	accatcaaga	agcttccttn	anggggntta	cnttccatgg	tttcccatgg	840
tgaaggancc	tgncctgggc	ggccgnttaa	gggcgaaatt	caacacactt	ggngggccgn	900
tnnnttaang	gatccnaact	tggganccaa	annnttgggg	naaannatgg	gnnnnnaact	960
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gaan						1024

<210> 57
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
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<222> (1)...(1024)
<223> n = A,T,C or G

<400> 57						
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ttagtatctg	gcttccttaa	ggatgtaact	ttcatgtaac	agattaataa	cttatatgaa	180
aaccaacaca	accatatggt	tagggctgga	aagggccatg	acgcctgggc	atttttcctg	240
ttttacctta	ctcttatgtg	tgtcacactt	catcaattcc	ggaaacagtt	tctggagatc	300
tcctcattac	ctcttttaca	atcacctcac	tccagcatgg	tgtctgttac	ctcttcccac	360
ttgtgacaat	gtctagtaag	gtccactctc	cattctgtgt	gatgaccact	tattacaacc	420
ctcagaatag	gggacagtgg	tgtgccccct	gcaatacaat	ggtttctatc	tcctgatact	480
tttattacac	ctctagcagg	atgtcttgtg	atcctcctta	ttgatttttc	cctcacgatg	540
atgaacaatt	atctcccgtt	actcacctag	cagtatctaa	ctgtccctaa	cacagcatgt	600
gggaatgccc	tcaatacggg	ggatgctgnt	aactttcttc	cttcccctca	ggcaatggcg	660
gtgacttaca	atgaaccata	atggccacat	ttcccaactg	nattttggaa	cctcttctgn	720
ccccttcttt	ctagganccc	agttaaaaaa	aaaaaaccaa	aactagcccc	aatgnctgtg	780
atgcccatta	atcacttacc	cagggctgan	ccctncatta	aanttttgat	gggatctctt	840
tggnttccca	attggccggt	naaccacaagn	ctgntggatt	cccaanttnc	cccattgntt	900
taatgcgggt	cccttaanca	ncccttggtt	actggacctg	gccngggngg	gcccttttaa	960
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aang						1024

<210> 58
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 58						
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aggaaccgca	tgaagcaatg	tgggaaattg	ggaatcagca	gacattgggt	taacgggaca	180
atggggagcc	aagagatacc	atcaaaatth	aatggagggg	tcagacactg	tgttagtgat	240
taatgggcat	caacagacat	tgggctagtt	tttgtttttt	ttttttaact	ggggtcctag	300
aaagaagggg	acagaagagg	ttccaaaata	cagttgggaa	atgtggacat	tatggttcat	360
tgtaagtcac	cgccattgcc	tgaggggaag	gaagaaagtt	aacagcatcc	accgtattga	420
gggcattccc	acatgctgtg	ttagggacag	ttagatactg	ctaggtgagt	aacgggagat	480
aattgttcat	catcgtgagg	gaaaaatcaa	taaggaggat	cacaagacat	cctgctagag	540

gtgtaataaa	agtatcagga	gatagaaacc	attgtattgc	agggggcaca	ccactgtccc	600
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attgtcacia	gtgggaagag	gtaacagaca	ccatgctgga	ntgaggatgat	tgtaaaagag	720
gtaatgaaga	gatcttccag	aaactgtttc	cggaattgat	gantgtgacc	cnccttaaga	780
ntaaggtaaa	acaggaaaaa	tggncaggc	gtnatnggcc	cttttcagnc	cttaaccttt	840
attggtgggg	tggtttcata	taagttantt	aatctggtn	cctgaaagt	tccttccttt	900
anggaaccc	gantcctaan	cctttnaagt	ccnnggatga	gacccttggn	ccgggaaccc	960
cccttaagg	cgaaattccn	nccacttg	gngggccntt	nncttaagg	acccaacttg	1020
ggcc						1024

<210> 59

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 59

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gctggaattc	gcccttagcg	tggtcgcggc	cgaggtagct	ggttttcttt	caactcttca	120
atttcccatc	ttccatcgta	tattgaaatt	tcctcatcca	tgatcatctt	ctttgctttt	180
gataagaccc	atccagccaa	ccttccacta	tcaaaagt	ctgcaaaata	tacttctcct	240
ataggttgag	gtgtcttata	tttaattctt	gaggaaagt	cactttcatt	aacatcaatt	300
tcttctgaat	tttcttcaaa	gtcttccgtc	tcaacatcat	catccataaa	ttctgcatta	360
attgagatga	acagaagacc	caaacataac	caaaaggctt	ggaaatgcat	attgattatc	420
tctcttgccg	cctgttttcg	gcagtgcag	ctcagatgtc	caagtcggtg	ccacttggtc	480
cccgcgtctc	ttcagaccag	ttccccccgc	gtacctgccc	gggcggccgc	tcgaaagggc	540
gaattctgca	gatattccatc	acactggcgg	ccgctcgagc	atgcatctag	agggcccaat	600
tcgccctata	gtgagtcgta	ttacaattca	ctggccgctg	ttttacaacg	tcgtgactgg	660
gaaaaccctg	gcgttaccca	acttaatcgc	cttgccagcac	atcccccttt	cgccagctgg	720
cgtaataacg	aaaagcccg	accgatcgcc	ctttccacag	ttgcgcagct	gaatggcgaa	780
atggaccccn	ccctgtancg	gcgcattaan	ccnccngcng	gttnttgggg	tacccccaac	840
ggggaccggt	acactttgnc	aagggcctaa	cgncgggttc	ntttgggttc	ttncctttcn	900
ttnttngcac	gttngnccgg	nttttcccg	naagctttta	aatngggggc	ttcccccttt	960
anggtcccn	aataaagggt	ttacggganc	ttgaaccccc	aaaaaacttt	gnnttnagg	1020
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<210> 60

<211> 1024

<212> DNA

<213> Homo Sapien

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<222> (1)...(1024)

<223> n = A,T,C or G

<400> 60

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tggctctgaag	agacgcgggg	accaagtggc	aacgacttgg	acatctgagc	tgctactgcc	180
gaaaacaggc	cgcaagagag	ataatcaata	tgcatcttcca	agccttttgg	ttatgtttgg	240
gtcttctgtt	catctcaatt	aatgcagaat	ttatggatga	tgatgttgag	acggaagact	300
ttgaagaaaa	ttcagaagaa	attgatgtta	atgaaagtga	actttctctca	gagattaaat	360
ataagacacc	tcaacctata	ggagaagtat	atgtttgcaga	aacttttgat	agtggagggt	420
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acgatggaag	atgggaaatt	gaagagtga	aagaaaacca	ggtacctcgg	ccgcgaccac	540
gctaaggcg	aattccagca	cactggcggc	cgttactagt	ggatccgagc	tcggtaccaa	600
gcttggcgta	atcatggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	ctcacaattc	660

cacacaacat	acgagcccgg	aagcataaag	tgtaaagccc	tgggggtgcct	aatgagtgag	720
ctaactcaca	ttaaatgcgt	tgcgctcact	ggccgctttc	cagtcnggaa	accctgtcgt	780
gccagctgca	ttaatgaatc	ggccaacgcc	ccgggggaaa	aagcggnttg	cgtattgggc	840
gctcttccct	ttcttgntta	cttgactcgc	ttgggcttcg	tcgttcggct	gcggcnaacg	900
gnatcagctt	actcaaangc	gggaaatacg	gtantcccca	gaatccnggg	gattaccccn	960
ggaaaagaac	ctgtgagccn	aangggcccc	aaangggccn	gaaccntaaa	aaangggccc	1020
tnnn						1024

<210> 61
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 61	
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agtggtgctgg	aattcgccct
accaattttg	ctgcaagaat
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tgttggcatg	ttctttttct
gcaatcacct	attaatgatg
atggagaata	cttcccacat
attttatcaa	attattgctt
cttaagagat	gagtttcttc
cggaggaatc	attaagaaa
ctttttctgt	gaaaaatatt
catcagtacc	tcggccgcga
cggccgctcg	agcatgcac
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gaacggccnt	ttcccaaagg
ccggngccnt	taanccccc
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<210> 62
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
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<222> (1)...(1024)
<223> n = A,T,C or G

<400> 62	
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atatctgcag	aattcgccct
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agtcctctat	caacatgcat
ctgtcttaag	ccttattata
atgacagtga	tatttgaaaa
taaaatttcc	caaagtggta
aaaaatggtg	ttacttctga
aaccctacac	aagtgttgac
gctattttaca	gattttaaag
tttgtagctg	ccccggggcg
acttagtgga	tccgagctcg

nggtgaaatt	ggtatccccg	tcacaatttc	nccccancat	acgaanccgg	aagccntnaa	840
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ctggcccggt	ttccaatcng	ggaaanctgt	cgngcccact	ggntttaang	aatcggccan	960
gccccnngg	gaaaaaagng	gttgcnnatt	gggccccttt	tcggttcctt	ggttantgga	1020
atcn						1024

<210> 63
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
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<223> n = A,T,C or G

<400> 63						
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aaaaatgttc	atttttgtcc	cagtaaattg	agactgcttg	tacttttttt	tttttttttt	180
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atttccatgt	ctgaccaccg	ctactactat	gtcctatcat	aacattccat	acatacttaa	300
aaccaagcaa	agggtggagt	tccatcttta	aaaactaaac	ggcatttttg	acaacacatt	360
cttggaata	naacctggac	aacattttatc	aaacacggta	gggaaagttc	tcactctgca	420
ttataaaaag	gacagccaga	tatcaactgt	tacagaaatg	aaataagacg	gaaaattttt	480
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tttggaaga	gaaccacctt	tttctatact	tgcttgcat	tttgctttaa	tgncctctac	660
agaactaggt	ccttttgng	ttttaggagt	tttttcctgn	ttctgaagg	attcttgccc	720
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atttttggt	ggagnatctc	ggatagattt	cttcactggg	gctttttctt	nagntttcct	840
catatcaaaa	tentcatcat	catcancttt	atnaanatcc	cctttaatna	anatcggnat	900
tnatntttat	tnagcngcaa	ggtttacttt	ttttctgggg	gaanctttgt	tanccccctt	960
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ttaa						1024

<210> 64
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<212> DNA
<213> Homo Sapien

<220>
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<222> (1)...(1024)
<223> n = A,T,C or G

<400> 64						
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tccttgggg	gctttgaaat	aacaccacca	gtggtcttaa	ggttgaagtg	tggttcaggg	180
ccagtgcata	ttagtggaca	gcacttagta	gctgtggagg	aagatgcaga	gtcagaagat	240
gaagaggagg	aggatgtgaa	actcttaagt	atatctggaa	agcggctctg	ccctggagggt	300
ggtagcaagg	ttccacagaa	aaaagtaaaa	cttgctgctg	atgaagatga	tgacgatgat	360
gatgaagagg	atgatgatga	agatgatgat	gatgatgatt	ttgatgatga	ggaagctgaa	420
gaaaaagcgc	cagtgaagaa	atctatacga	gatactccag	ccaaaaatgc	acaaaagtca	480
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tggaatggg	agaagtctct	ttaagaaaat	agtttaaacc	atttggtaaa	aaattttccg	780
tcttatttca	tttctgtacc	agttgatatc	ctgctgtcct	ttttataatg	cnaagtggag	840
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ccaaaatgcc cgntagtttt tnaagatgga acttcacccn tttgcttggn ttttaagtatg 960
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acaa 1024

<210> 65
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 65
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gtaatggaaa tgtttcattc attaatgtta ttgatatggg tgcactatgt ccgtaatttt 180
gctttttgtg tatctgtcta atgtttttta tctcctttt tctcttttac tattttcttt 240
taaattaagt aaatagttcc taacgtagta tcttattttc ttaaaataaa tcaaactcac 300
ttataaaata tatttcatat tactttctta tcyattgctg tatgccttac aacatacatc 360
ttatcagact caacatttat agtaacataa atccattgag acatagtaac attaatctt 420
tataggtcta tttattctac ttattcaata attgttatat atatattaca tctacatgtt 480
acaaacacaa aaatatattg ttataatgct tgtttttatg taattttatg tcttttaaag 540
aacatgagag aagaaaggaa agcaaagtaa ctattagcat tgttatgtta acattattct 600
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ttcatttctt taatacaact ttgctccaat tatttctttt gtgctcttaa tgtcaaata 720
attaagtttt gnttgcatta taggctcaac actattatac atatattggg ttatgcattt 780
attttgaatt aagagaaaat aaaaatatgc aatttaattg cttatatact attcatataa 840
ttaccctcta tgagggtncn ttatatatgn attccaacn tatttataaa ntccaaanta 900
cctgggtangt gccnaaaggc tcctaagcct attagcccg aaaaaaaatc cctgggtant 960
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aacc 1024

<210> 66
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
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<222> (1)...(1024)
<223> n = A,T,C or G

<400> 66
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agaggagac tctatgccaa acaaacaaac aaacaaacaa acaacaatg gagaccagaa 180
agcaatgaga tgaaatgttc aaagtgtgta aagaaaaaaa aaggtcaacc aaaagtctta 240
tatccagaat atttttcaaa gtataaaagc aaaatacatt ctgagataat aaaaacaaaa 300
caaactaaaa gagtttgttg ctatcatacc taccttaca gaaatactca gtgatttttt 360
tcaggcta at aggctaggag catttggcac ctaacagtaa tttgaattta tatatatgtt 420
tgtatacata tatatggaac actcatagag gtaattatat gaatagttat ataagacatt 480
aaattgcata tttttatttt ctcttaattc aaaataaatg cataaaacaa tatatgtata 540
atagtgttga gcctataatg caaacaaaac taatatattt gacattaaga gcacaaaaga 600
aataattgga gcaaagtgtt attaaagaaa tgaaatgaca ctaagataca acttgaatca 660
acaggaaaaa aatgaagaga accagaaatt gtaagaata atgntaacat aacaatgcta 720
atagttactt tgctttcctt tcttctctca tgntctttta aagacataaa attacataaa 780
aaccaagcat tataacaata taattttggg tttggaacat ggtagatgta tatatatata 840
ccattattgg ataagtagaa taaataggac tattaaggaa ataatggtag tatggctcaa 900
tgggantaag gtacctataa nggtgagcct gganaggaag natgttgnaa ggcttccggc 960
aatcggttta gaaagtantt tggaatatata ttttnatnaa gnggggttga ttaatttagg 1020

aaaa

1024

<210> 67
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 67

gagnnnnnt	taactccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gccctttcga	gcggccgccc	gggcaggtag	tttttttttt	tttttttttt	120
ttttggaaaa	tgagattttt	gactttaaca	aaacaaatac	agattgaatt	taccaaatat	180
tgataattca	tgtanaacgg	gtgccacaga	ttttaaagta	tcaaaaccaa	gagggcatca	240
caaaataaac	tttggtgaaa	aatatcttca	tcaaagaaga	aaatatgaga	agagtagtcc	300
ttatgcagtg	aggagaaata	tatttggtaa	agtaaataatg	ggtagtagat	actgaatcta	360
tagatagcat	atattccaaa	tgtttttttag	ggaatatcaa	atcagatgat	gcttanatgt	420
tatagtaata	tcacttatct	catttggaat	gaaatttaat	gttttttaat	aaatagcaaa	480
ttttcatttt	ttcactacct	ttataaaaaca	aattaaatat	ttagagtata	actgatcata	540
actaacatca	ccttgcatct	actaataaat	actctaaata	catttggttt	attattggaa	600
tttatatcct	tataatttta	cctgctagaa	attagttagc	ttgtggcatt	atgtttaaag	660
tttacatttt	cccagtgatg	tgaacagtat	ttatacntaa	aatggatata	tgnccaatga	720
atagtaacca	tgtttggtgg	tttaaaaacc	gnacatgggt	tagtttgaca	ttggcatgtc	780
tcttcagaaa	ttnaaaagg	atcnttttaag	ggatggcttt	tnggaaatca	ttaataaaact	840
accntctggg	aaaangaatn	ccaatttcaa	gaagctacct	aantagaact	cagaccccn	900
gggcagggt	ttggnanaaa	angctttcaa	ttncaaattn	ntntccggn	gnaaacgaa	960
ngggaccctt	annngnntgg	accncccttc	cngnaaactg	gtttttaa	aaaaatttcc	1020
gnn						1024

<210> 68
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 68

gnngnnnnnn	ntnnnttcga	attgggccct	ctagatgcat	gctcgagcgg	ccgccagtgt	60
gatggatata	tgagaattc	gcccttagcg	tggtcgcggc	cgaggtagct	agtagatcta	120
ctgagattaa	acgggacctg	tttgagcag	aaccttttga	cccatttaac	tgtggagcag	180
cagatttccc	tccagatatt	caatcaaaat	tagatgagat	acaggagggg	ttcaaaatgg	240
gactaactct	tgaaggcaca	gtattttgtc	tcgaccggtt	agacagtagg	tgctgacatc	300
aagaacaaga	aatcctgatt	catgttaa	gtgtttgtat	acacatgtca	tttattatta	360
ttactttaag	ataggtatta	ttcatgtgtc	aatgttttta	aatattttta	tattttgaaa	420
attttctcag	ttaaatttcc	tcaccttcac	tattgatctg	taatttttat	tttaaaaaca	480
gcttactgta	aagtagatca	tacttttatg	ttcctttctg	tttctactgt	agatgaattt	540
gtaattgaaa	gacatattat	acaaataacct	gccttgtgtc	tgagttctat	ttagttagca	600
tcttgaaatt	tgtattcatt	ttccagatgg	ctagtattat	aatgatttcc	caaaagccat	660
accttaaa	taacttttta	aattctgaag	agacatgcc	atggcaaact	aaacatgggc	720
tggttttaaa	ccaaccaaca	tggtactatt	cattgggaca	gatatacatt	tatggataaa	780
tctggtcaca	tactggggaa	atgggaaact	taaacataat	ggccccangg	cactaatttc	840
ttaccggtaa	aaatnttang	ggtttaaa	nccatattna	accnatggg	tttaaaggat	900
ttatntaaa	ngcnngggga	ngtannttg	acagntnncn	ctaaaanttt	aaatgggttn	960
ttaaaggnt	gaaaaaanga	aaaattgctt	ttttttnaaa	acctttaant	cntttccnag	1020
gggn						1024

<210> 69
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 69
gggnnnnnnn tnncttanac gccnngettg gtaccgagct cggatcccta gtaacggccg 60
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg cagggtactcc ggtcgggtgct 120
agcagcacgt ggcattgaac attgcaatgt ggagcccaaa ccacagaaaa tgggggtgaaa 180
ttggccaact ttctattaac ttatgttggc aattttgccca ccaacagtaa gctggccctt 240
ctaataaaaag aaaattgaaa ggttttctcac taaacggaat taagtagtgg agtcaagaga 300
ctcccaggcc tcagcgtacc tcggccgcga ccacgctaag ggcgaattct gcagatatcc 360
atcacactgg cggccgctcg agcatgcac tagagggccc aa!tcgccct atagtgagtc 420
gtattacaat tcactggccg tcgttttaca acgtcgtgac tgggaaaacc ctggcggttac 480
ccaacttaat cgccttgca cccatcccc tttcgccagc tggcgtaata gcgaagaggc 540
ccgcaccgat cgcccttccc aacagttgca cagcctgaat ggcgaatgga cgcgccctgt 600
agcggcgcat taagcgcggc ggggtgtggtg gttacgcgca gcngtgaccg ctacacttgc 660
cagcgcctta cgcccgctct ttcgctttct tcccttcctt tctcgccacg ttcgcccggc 720
ttccccgtca agctctaaat cgggggctcc cttttagggt tccgaattan tgctttacgg 780
accttgaccc caaaaaactt gantanggtg atgggtcacg taatgggccc atnggccttg 840
anaagacggg ttttcgccct ttgacngttg gagtccacgt tctttaaaag gggactcttg 900
gttccaaact ggaacaaccn nttaancctt atttngggct aatcctttgg aattaatnag 960
ggattttgcc caatttgggc ccttnggtta aaaaaagggg cttgntttaa ccaaaaattt 1020
aacc 1024

<210> 70
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 70
ggagnnnnnn ttnggtttgg gccctctaga tgcattgctc agcggccgcc agtgtgatgg 60
atatctgcag aattcgccct tagcgtgggc gcggccgagg tacgctgagg cctgggagtc 120
tcttgactcc actacttaat tccgtttagt gagaaacctt tcaattttct tttattagaa 180
gggccagctt actgttggtg gcaaaattgc caacataagt taatagaaaag ttggccaatt 240
tcaccccat ttctgtggtt tgggctccac attgcaatgt tcaatgccac gtgctgctga 300
caccgaccgg agtacctgcc cgggcgggcg ctcgaaaggg cgaattccag cacactggcg 360
gccgttacta gtggatccga gctcgggtacc aagcttggcg taatcatggt catagctgtt 420
tcctgtgtga aattgttatc cgctcacaat tccacacaa atacgagccg gaagcataaa 480
gtgtaaagcc tgggggtgcct aatgagtga ctaactcaca ttaattgcgt tgcgctcact 540
gcccgccttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc 600
ggggagaggc ggtttgcgta ttgggcgctc ttcgcttcc tcgctcactg actcgctgcg 660
ctcggctcgt cggtgcggc gagcgggtatc aagctcactc aaaggcggt atacngttat 720
ccacagaatc aaggggatac gcaggaaaga acatgtgaac caaaaggcca caaaaggcca 780
ggaacccgta aaaaaggccg cgttggctgg cgttttttcc atangcttcc ggcccccttg 840
acgagcatta ccaaaaatcg acgtcaagt tcaaagggtg cgaaancccg accggactnt 900
taagaatccc agcgtttnc cctggaactt ccttgggcgc ttttctggtt ccaaccttgc 960
cgttaccgga tacctggncc gcntttttcc ctttngggaa accngggcnt tntcaaaant 1020
taac 1024

<210> 71
<211> 1024

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 71
gagnnnnnt taactccgc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaattc gcccttagcg tggctcgcg gcagggtactt tttttttttc tttttttaca 120
tctgatttta atgcttcgtt aacttcaaaa ggaactggta gagttcagaa ggtgagctgt 180
tgtttttcta aacctcttcc caggaagggg acattgacac ttgaattttt gtcacctttt 240
tcctcattag aaggaaagta gaaagcctta ctgtaggatt tttaaaaaaa aatccatctc 300
accccatatt ggtcttaaat aagtatagac taattaacct aagctacctt taacaacgta 360
gaatttagat gggttcatat atgtgagaaa aacctgaata taggacaggg gtcctacttt 420
tttccccacc tctgtcgccc aggctagagt atagtgggtg gatcctggcc cactgcaacc 480
tctgcttctt aggttcaagt gattctcctg cctcagcctc ccaagtagct gggattgtaa 540
gagtatgcca ccacgcccag ctactttttg tatttttagt agagacaggg tttcatcatg 600
ttggccagga tggctcttta actcctgccc tcaagtgatc caccagagag gagatcctcg 660
gcctcccaa gtgctgggat tataggcatg agccaccgtg cccagcctac tttctaatta 720
attaaaaaaa aaaaaaaaaac ttcccaaatg agctgataaa aaactgacgt gaggctgctt 780
tgccttcaat aatacctagt tttcagctgt tccaactcgt ttccaaattg gaaattanct 840
ggaacnccac tacagtaatc ttcanggaan gggaaaatta ggccttaaaa gaatccccag 900
aaagttcanc atnggnancc tgnccnggcc ggnccgttca aaangggcna aatttgcaga 960
aattccatna cacttggcgg gccgttcgan catggctttt aangggccca attgnccctt 1020
aaag 1024

<210> 72
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 72
gnagnnnnnn ttnnnttccg aattgggccc tctagatgca tgctcgagcg gccgccagtg 60
tgatggatat ctgcagaatt cgccctttcg agcggccgcc cgggcaggta ccatgctgac 120
ttcttggtat cttttaaggc ctaattttcc cttccttgag attactgtag tgtgttccag 180
ctaatttcta tttggaaacg agttggaaca gctgaaaact aggtattatt gaaggcaaag 240
cagcctcacg tcagtttttt atcagctcat ttgggaagtt tttttttttt ttttaattaa 300
ttagaaaagta ggctgggcac ggtggctcat gcctataatc ccagcacttg gggaggccga 360
ggatctcttc tctgggtgat cacttgaggg caggagttaa gagaccatcc tggccaacat 420
gatgaaaccc tgtctctact aaaaatacaa aaagtagctg ggcgtggtgg catactctta 480
caatcccagc tacttgggag gctgaggcag gagaatcact tgaacctagg aagcagaggt 540
tgcagtgggc caagatcaca ccactatact ctacacatata tgaacccatc taaattctac 600
gtaggacccc tgtcctatat tcagggtttt ctcacatata tgaacccatc taaattctac 660
gttggttaaag gtagcttagg ttaattaagt ctatacttat ttaagaccaa tatggggtga 720
naatggattt ttttttaaaa atcctacagt aaggctttct actttccttc taatgaggaa 780
aaaggtgacc aaaantcaag tggcaatggc ccctttctgg ggaaaagttt anaaaaacca 840
ccggttanct tntggaactt ttaccaggtt cccttttgaa gttaccgaag ccttttaaan 900
cagatgttaa aaaaggaaan nnnaaaaagt ncctttggcc gggaaccnc ttaagggcca 960
aattccacac acttgggggg ccgntnccnt anggatccca ncttgggncc aaannttggg 1020
gnaa 1024

<210> 73
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 73
gagnnnnnnnt tnactttacac gccngcttgg taccgagctc ggatccctag taacggccgc 60
cagtgtgctg gaattcgccc tttagcgtggg cgcgcccgag gtactgtgtt atggcacaga 120
caatgcttgc tttagcgtgac cttgtttacat aggtgggatgc agagtgcgca cacgggatga 180
tggcaataaa gacctcactc agtcgttggg atgaaggaaac taggtaactg cttcaacaag 240
gacggtctca gctctacctt atctctcaac agagtgcgaa cactgagtgt gagctcagat 300
gtcatcttgt tctctctttaa aattcaccaa attcttttgc acatttttct gttatagaga 360
cacggatata ttcttcttca tagtcatcaa agttgctggg atctccagag cctctaaact 420
ttgggtatgaa tggagcttca accttcctct ggtaaatagc aatccaatct gtcgtggcaa 480
accacttgtg agtttttata tcaactgacac cattcttttag atttccaaat ctcttgatca 540
aatccacctg cagcaggttc cgtagaaggc ccttgagatc tgaactgaag tgggatggga 600
atcggacctt tccagaaaca atcttttcat aaatctgaat tgggttggctt gcaagaatg 660
ggggatagcc agctgccatt tcatagatta gcaactcctaa tgcccaccaa tccactgcct 720
tattgnagcc cttgctgaga attatttctg gagccaaata cctctggagt tccacataat 780
ggccaagtcc tgcctttaac tcttttggca aacccccaaa gtctgtgacc cgggatatag 840
ccctgatggn ccaattttaag aagaattttc anggttttaa aaactctggg aaatgaaggc 900
taanggaaat ggaggnacct tttttttttt nnnnnnnntt ttttttttnaa acnttgtaaa 960
aggccaaaat tttggctana anttantttc aaagnttnaa accttttcca aatttttttt 1020
taat 1024

<210> 74
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 74
ggagnnnnnn nttgagttcc ggccctctag atgcatgctc gagcggccgc cagtgtgatg 60
gatatactgca gaattcgccc tttagcgtggg cgcgcccgag gtactgtgtt atggcacaga 120
ttctctgggtg accaagcttc cactgacaag gaagaggatt atattcgta tgcccatggg 180
ctgatatactg actacatccc taaagaatta agtgatgact tatctaaata cttaaagcct 240
ccagaacctt cagcctcatt gccaaatcct ccatcaaaga aaataaagtt atcagatgag 300
cctgtagaag caaaagaaga ttacactaag tttaatacta aagatttgaa gactgaaaag 360
aaaaatagca aaatgactgc agctcagaag gcttttgcta aagttgacaa gagtgggatg 420
aaaagtattg ataccttttt tggggtaaaa aataaaaaaa aaattggaaa ggtttgaaac 480
tttgaaaata aaatctagca aaaatatttg cttttttacat gtttttaaaa aaaaaaaaaa 540
aaaaaaaaaa aagtacctcc attcactaga cctcatctac agagatctaa aacctgaaaa 600
tctcttaatt gaccatcaag gctatatcca ggtcacagac tttgggtttg ccaaaagagt 660
taaaggcaga acttgacat tatgtggaac tccagagtat ttggctccag aaataattct 720
cagcaagggc tacaataagg cagtgggatt ggtgggcatt aggagtgcta atctatgaaa 780
tggcactggc tatccccatt cnttgcagac ccacccattc agaatttatt gaaaaagatg 840
gttcttggaa ngnccgaatt cccattcccc ttcagntcna actcaagggc ccttttacgg 900
aancttggtt gcanggggga ttgatccagg anaatttgga aatcttaaag aaaaggggnc 960
cggggtttta aaaacctcnc aagnggggtt gccccancg naatgggatt ggtttttccc 1020
ccna 1024

<210> 75
<211> 1024
<212> DNA
<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 75

gagnnnnnt	taactccgc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtagta	tatgtatttt	attaaaaatg	120
tggaagatta	atctgtttct	ctctgaatgt	agattttcac	caaaacatct	cttaaaacag	180
cagggactca	acacttaaaa	atgaactaga	agagctgggc	acagtggctc	acgcctgtaa	240
tcccagcact	ttgggaggcc	gaggcgggca	aatcacttga	ggtcaggagt	tcgagaccag	300
cctggccaac	atggtgaaac	cctgtctcta	ctaaaaacac	aaaaattaac	tgggcatggc	360
ggcacacgcc	tttaatccca	gctactcaag	aggctgaggc	aggagaatcg	ctttgaacct	420
gggaggcaga	ggttgacagt	tgctgagatc	ataccactgc	attccagcct	gggacgacaga	480
gcaagactcc	acctcaaaaa	aaaaaagaag	aaaagaaaat	agtagtctca	gccaggcgtg	540
atggctcaca	cctgtaatcc	cagcactttg	ggaggccaag	gtgggcagat	cacctgaggt	600
caggagtctg	agaccagcct	ggcctacgtg	gcaaaacctc	atctctaata	aaaatacaaa	660
aattagcttg	ggcgtggtgg	catgcacctg	tcaccccagc	tatttgggag	gctgagacag	720
gagaagtcgc	tttgaacctg	ggangcagaa	aattgcggtg	aagctaagat	cgcacgactt	780
cacttccacc	tgggcaaaaag	anggaactct	atctcaaaaa	aaaaaaangg	aaaaagtagt	840
ctntaagaca	ctgggcaaac	cttgaaagga	attgagcagt	cctcactttt	ctgnagtcan	900
tttgntnaat	gccacatggc	tcttttgnaa	gaaatttgag	agcttttttc	taatcccaat	960
ttttntaatt	tgggaattcc	tttttccgga	ttttttcntt	gccngngngt	gttcccaang	1020
gcct						1024

<210> 76
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 76

gnngnnnnnn	ttnnnttgng	antngggccc	tctagatgca	tgctcgagcg	gccgccagtg	60
tgatggatat	ctgcagaatt	cgccctttcg	agcgcccgcc	cgggcaggta	ctctttgtgg	120
ctggcttctt	tttctgcaca	caatgcctat	gagaccataa	ctaaagtcaa	attccatggt	180
cactaaccac	taatggcatc	tcaaagaaat	tccaacctag	agaaattctg	atgatgtggt	240
tagaacacca	atcaggacac	tcacttcatg	gttgataatt	cccagacatg	actgattcag	300
accagctta	ttgaattcat	tgagtccaca	ggccagcact	ttgcctgact	gggtcaacag	360
aaatgtccca	tcacagccac	attgaactgc	aacaataatc	aaggccttgg	gaacatccac	420
ctgcaagaaa	aaaatcagaa	aaagaaatcc	caaatatata	attcgtatta	gaaaaaaagc	480
tctcaaattc	tttcaaaaga	gacatgctgc	atttagcaga	atgactacag	gaaagtgagg	540
actgctctat	tcttttcagg	tttgcccagt	gtcttagaga	ctactttttc	tttttttttt	600
tttgagatag	agtttccctc	ttttgcccag	gctggagtga	agtccgtgcg	atcttagctc	660
accgcaatct	ctgcctccca	ggttcaagcg	acttctcctg	tctcagcctc	ccaaatagct	720
gggatgacag	gtgcatgcca	ccacgcccag	ctaatttttg	gattttttat	agagnatgag	780
gttttgccac	gtaggccaag	ctggncctga	acttctgacc	ctcaagtgac	tggccaccct	840
tgggccttcc	aaagtgctgg	gaattacagg	gngagccatt	acgcctggnn	tgaaactcca	900
atttcttttc	ttentttttt	ttttgngngg	gagcttgctn	tgcncccaag	ctgggaaagc	960
cangggatga	cttnnnncac	tggaaccttg	gcttcagggt	taaagggtat	tctggcttaa	1020
nccc						1024

<210> 77
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)

<223> n = A,T,C or G

<400> 77

gagnnnnnnnt	aacttacacg	cccgtttggt	accgagctcg	gatccactag	taacggccgc	60
cagtgtgctg	gaattcgccc	ttagcgtggt	cgcgcccgag	gtactttttt	tttttttttt	120
tttttttttac	agaaggctgt	aaagctttat	tgggagaatt	ttaatgaaca	aatttccaac	180
ataggagcag	cctgcatcat	ttcaacgtgc	cttcttttaa	cactgtgatt	gcttttcacc	240
ttcttcaggc	gttttcacct	cctctggatt	tggcgggtcc	atctcctgcc	catcaggacc	300
atcttcacac	tcacacccag	tctgtgggtg	accctgttcc	tggctatgag	cttcaggctt	360
cgcccttga	cctgcanatg	ctccctcatc	ctctccctcc	tgagcagctg	caggatcctg	420
acgttgagtt	gctgggtccc	cttcttcagg	tgttgctggt	tccgcttcat	cactgaactg	480
ctcgggccgc	ataggcccaa	tcatttcagg	aggctgnacc	tgcccgggcg	gccgntcgaa	540
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ccaattcgcc	ctatagttag	tcgtattaca	attcactggc	cgtcgtttta	caacgtcgtg	660
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aagggcnaaa	tggacncccc	tggaacggcc	attaaccccc	gcnngnnnnn	gggtaccccn	840
caangngacc	ggtacacttg	gcaangccct	aacgcccggg	ccntttgntt	ttctttcctt	900
tcnttttngc	acgttnnncc	gggttttccc	ggnaagctnt	naaatngggg	ggccccntt	960
tngggtcena	ataaggcntt	tagggncctt	ggncccncaa	aaatttgntt	ttnggggan	1020
ggtc						1024

<210> 78

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 78

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ttgggcctat	gcggcccag	cagttcagtg	atgaagcgga	accagcaaca	cctgaagaag	180
gggaaccagc	aactcaacgt	caggatcctg	cagctgctca	ggagggagag	gatgagggag	240
catctgcagg	tcaagggccg	aagcctgaag	ctcatagcca	ggaacagggt	cacccacaga	300
ctgggtgtga	gtgtgaagat	ggctctgatg	ggcaggagat	ggaccgcca	aatccagagg	360
aggtgaaaac	gcctgaagaa	ggtgaaaagc	aatcacagtg	ttaaaagaag	gcacgttgaa	420
atgatgcagg	ctgctcctat	gttggaattt	tgttcattaa	aattctccca	ataaagcttt	480
acagccttct	gtaaaaaaaa	aaaaaaaaaa	aaaaaagtac	ctcggccgcg	accacgctaa	540
gggcgaattc	cagcacactg	gcggccgcta	ctagtggatc	cgagctcggg	accaagcttg	600
gcgtaatcat	ggcatagct	gtttcctgtg	tgaatttggt	atccgctcac	aattccacac	660
aacatacgag	cccgaagca	taaagtgtaa	agcctggggg	gcctaattgag	tgagctaact	720
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tgcattaatg	aatcggncaa	cgccccgggg	aaaaagcggt	ttgcgtattg	ggcgctcttc	840
gctttcttgg	ttacttgact	cnttngncc	tggccgttcg	gttgcgggna	acggtttcag	900
cttacttcaa	angcgggaaa	tccggttttc	cncggaaatc	aggggaatac	cccnggaaaa	960
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<210> 79

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

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<222> (1)...(1024)

<223> n = A,T,C or G

<400> 79

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gctggaattc gccctttcga gcggccgccc gggcaggtac tgtttttgtc atttgcacca 120
gcttctttct ccaggaaaga tcaaaacgat gcactgcaag gttaacatcc aatttttaat 180
acattgtgat tgggtccagat agctgcctta tccaactgcc tcctttggac cacttcatca 240
tgggacagct tgatgcaatc tacttgacaa gaccctggaa cccacacccc ctcatggaac 300
cagtgtccac ctcccagtca cagtgtgacc ccagggaact cttgcctgct tgctttaaac 360
ccaccactta aaagtctcca cagaaaacct gtttgaatag tacctcggcc gcgaccacgc 420
taagggcgaa ttctgcagat atccatcaca ctggcggcgg ctcgagcatg catctagagg 480
gcccaattcg ccctatagtg agtcgtatta caattcactg gccgtcgttt tacaacgtcg 540
tgactgggaa aaccctggcg ttacccaact taatcgcctt gcagcacatc cccctttcgc 600
cagctggcgt aataagcgaa gaggcccgcg ccgatcgccc ttcccaacag ttgcgcagcc 660
tgaatgggag aaatggacgc gccctgtagc ggcgcatata gcgcggggcg gtggtggtgg 720
ttacggcgca gcgtgaccgc tacacttgcc agcgccctta cgcccgtcc tttcgctttc 780
ttcccttcct ttttngcacg ttcggccggc ttttcccgct agctctaaat cgggggctcc 840
cctttagggt tccgaattan tgctttacgg gaccttganc ccaaaaaact tggnttaggg 900
gtgaggggtc cgtatgggccc attggccctg aaaaanacgg ttttcgcccc tttgaccctt 960
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ttng 1024
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<210> 80

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 80

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tgatggatat ctgcagaatt cgccttagc gtggtcgcg ccgaggtact attcaaacag 120
gttttctgtg gagactttta agtgggtgggt ttaaagcaag caggcaagag ttccctgggg 180
tcacactgtg actgggaggt ggacactggt tccatgaggg gtgtgggggt ccagggtctt 240
gtcaagtaga ttgcatcaag ctgtcccatg atgaagtgg ccaaaggagg cagttggata 300
aggcagctat ctggaccaat cacaatgtat taaaaattgg atgttaacct tgcagtgcac 360
cgttttgatc tttcctggag aaagaagctg gtgcaaatga caaaaacagt acctgcccgg 420
gcggccgctc gaaagggcgga attccagcac actggcgccc gttactagt gatccgagct 480
cggtaccaag cttggcgtaa tcatggatc agctgtttcc tgtgtgaaat tggtatccgc 540
tcacaattcc acacaacata cgagccggaa gcataaagt taaagcctgg ggtgcctaata 600
gagtgaagta actcacatta attgcgttgc gtcactgcc cgctttccag tcgggaaacc 660
tgctgtgcca gctgcattaa tgaatcgccc aacgcgcggg gaaaagcggg ttgcgtattg 720
ggccgctctt ncgcttnctn gcttacttga ctcgcttgcg cttcgnccgt tcggcttgcg 780
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gggatnacc cnggaaaaga acatgtgaan ccaaaaggcc accaaaaagg ncnnngaacc 900
gtnaaaaang gccnnttnn nctgngttt ttccattaag gttcccggcc ccttgacagc 960
ctttccaaaa attcganncc ttcaaanctc aaagggggcn aaaacccnc cggggctttt 1020
taag 1024
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<210> 81

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 81

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cagtgtgctg	gaattcgccc	tttcgagcgg	ccgcccgggc	aggtacctca	ttagtaattg	120
ttttgttgtt	tcattttttt	ctaattgtctc	ccctctacca	gctcacctga	gataacagaa	180
tgaaaatgga	aggacagcca	gatttctcct	ttgctctctg	ctcattctct	ctgaagtcta	240
ggttacccat	tttggggacc	cattataggc	aataaacaca	gttcccaaag	catttggaca	300
gtttcttgtt	gtgttttaga	atggttttcc	tttttcttag	ccttttcctg	caaaaggctc	360
actcagtcce	ttgcttgctc	agtggactgg	gctccccagg	gcctaggctg	ccttcttttc	420
catgtcccac	ccatgagccc	tccactggac	agctcagtaa	gcctggccct	tcattctgcg	480
ctgtgttctt	cctctgtgaa	aatccaatac	ctcttacctc	ctctgcatgc	aaagattctc	540
aaggattgtc	agacttcaaa	cgtaacagca	gaaccaccag	aaggtcctat	aaatgcagta	600
gtgaccttct	caagctgtca	ggctctttaa	taggatttgg	gatttaatgc	tatgtatttt	660
taaaggaaag	aaataagaag	ttgctagttt	taaaaatgca	tgtcttttaa	ccaattcaga	720
atctgcccc	aaactttttt	naaaagtcaa	gacagataaa	gctttggggg	agacngaaaa	780
aaaaaannnn	nnnaaagagt	accttnggcc	gggaacacgc	taangggcaa	attctggcan	840
aaatncatta	cactgggcgg	gcggtttgag	cattgcntnt	anangggccc	aattngncct	900
ataanggggg	cgattacaat	tncctgggcc	gcgtttttaa	acgttnngaac	tgggaaaanc	960
ctggggtnc	cacnttaatg	gccttgngga	naatccccct	tttncccnan	tggngnannn	1020
nncn						1024

<210> 82
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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atatctgcag	aattcgccct	tagcgtggtc	gcggccgagg	tactcttttt	tttttttttt	120
ttttccgtct	ccccaaagct	ttatctgtct	tgacttttta	aaaaagtttg	ggggcagatt	180
ctgaattggc	taaaagacat	gcatttttaa	aactagcaac	tcttatttct	ttccttttaa	240
aatacatagc	attaaatccc	aatcctatt	taaagacctg	acagcttgag	aaggtcacta	300
ctgcatttat	aggaccttct	ggtggttctg	ctgttacgtt	tgaagtctga	caatccttga	360
gaatctttgc	atgcagagga	ggtaagaggt	attggatttt	cacagaggaa	gaacacagcg	420
cagaatgaag	ggccaggcct	actgagctgt	ccagtggagg	gctcatgggt	gggacatgga	480
aaagaaggca	gcctaggccc	tggggagccc	agtccactga	gcaagcaagg	gactgagtga	540
gccttttgca	ggaaaaggct	aagaaaaagg	aaaaccattc	taaaacacaa	caagaaactg	600
tccaaatgct	ttgggaactg	tgttttattg	ctataatggg	tccccaaaat	gggtaacctt	660
gacttcagag	agaatgagca	gagagcaaag	gagaaatctg	gctgtccttc	cattttcatt	720
ctggatatct	aggtgaactg	gtaaaaggga	gacatttgaa	aaaaatgaaa	cnaccaaaac	780
cattactaat	gaggtacctg	cccnggcngg	ccgttcnaaa	gggccaatc	cacacactgg	840
gcggccgtta	cttaatggat	ccnaactcgg	taccaancnt	tgcgtaaatc	atgggccnnt	900
actgggttnc	ctgggggnaa	atgggtatncg	gttaccatt	ccccccaann	ttcgancccg	960
gaanccctta	agggtaaanc	cctggggggc	ctnaagaggg	gctaacttcc	catttaaattg	1020
ggtt						1024

<210> 83
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

gggnnnnnnt	taanttanac	gccnnncttg	gtaccgagct	cggatcccta	gtaacggccg	60
ccagtgtgct	ggaattcgcc	ctttcgagcg	gccgcccggg	caggtagact	taaaattggg	120
gccgagcagg	gatataacct	gcagttaagt	gaaaagaaaa	tccagcctcc	ccctccaaaa	180

aaaaaaaaa	atttaatttt	taaaaattag	tggtatggca	ataagacact	tcagaggcta	240
tcttaacctc	tgaataccca	tcttctagtt	taaagacaga	gacatcccat	ctggaaaatg	300
ttaacttggtg	ttgtcatctc	gttgccggag	taagtagaca	taagacagag	tttaagaagt	360
aaaaatatag	aaaaattttg	atggtcacaa	tgagataaat	attagaatat	tactattcca	420
atgattaaat	gaggatcttg	aaataaattc	tgaagtcttc	caattttttac	atttattgga	480
ggggtccctg	agttctgtca	acttttttat	ttaagtctct	tgctcttatt	ttgtgcataa	540
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atagaaaata	tgacctgagt	agttaaaaag	tattttgcat	tatttgcaat	aagatgtctc	660
tagcactgct	caaagggcaa	attttaaaac	ttcagtctgg	gtgaaagatt	ttgctagttt	720
tacagaaaga	tttgctatct	taaactcaaa	gctgggtttt	cttttctcaa	tgtaagtgc	780
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agctttcctg	ncatctacnc	ctatatgtgg	cctngagggt	gaccaaattt	antttagntt	900
ctaagtgtaa	ncatcccaa	atgggctatc	caaatttgaa	tgngccctt	catactgnga	960
aggaaaaang	tggnccctng	ccgggaacac	ccttangggc	caattttgcg	anttcctac	1020
aatt						1024

<210> 84
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 84	
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ccctctagat	gcatgctcga
gcgcccgcca	gtgtgatgga
60	
tatctgcaga	attcgccctt
agcgtgggtc	cgcccgaggt
acagcattat	catctcagta
120	
tgtagtggca	cacattcaaa
atcgtataga	ccatatgagg
atagattaca	acttagaaac
180	
taaaataaat	ttgttcaaca
ctccagacaa	catatagtgt
agatgacagg	aaagctctca
240	
tgtaatgttt	atttcacaaa
catgaccttg	gaagaattca
taagacagca	tcccagtcac
300	
ttacatgaga	aaagaaaaac
cagcttgagt	ttaagatagc
aaatctttct	gtaaaactag
360	
caaatctttc	acccagactg
aagtttttaa	atgtgccctt
tgagcagtgc	tagagacatc
420	
ttactgcaaa	taatgcaaaa
tactttttta	ctactcaggt
catattttct	attaaattta
480	
ataaaaagta	aaagaaagaa
agctaacatt	tcatttttgg
aaggtttaac	atttatgcac
540	
aaaataagag	caagagactt
aaataaaaaa	gttgacagaa
ctcagggacc	cctccaataa
600	
atgtaaaaat	tggaagactt
cagaatttat	ttcaagatcc
tcattttaatc	attggaatag
660	
taatattcta	atatttatct
cattgtgacc	atcaaaaattt
ttctatattt	ttacttctta
720	
aactctgnct	tatgnctact
tactccggca	acgagatgac
caccacaagt	taacattttc
780	
cagaanggat	gtctctgnct
ttaaactaga	aagatgggta
tttcagaggg	taagaatacc
840	
ctctgaagtg	gtcttaatgg
cataccccta	attttttaaaa
antaaaattt	tttttttttt
900	
tgggangggg	aaggctggat
ttcctttcnc	ttaacctnga
gggtatatcc	cctgnntggg
960	
acccaatttt	aagngnacct
ggcccgggcn	ggccgttcaa
aagggcgaat	ttccgcncct
1020	
gggc	
1024	

<210> 85
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 85	
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ttggtaccga	gctcggatcc
ctagtaacgg	ccgccagtgt
60	
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gcggccgccc	gggcaggtac
gcggggagag	agaagcgagg
120	
ttctcgttct	gagggacagg
cttgagatcg	gctgaagaga
gcgggcccag	gctctgtgag
180	
gaggcaagac	acagtgggtc
gcaggatctg	acaagagtcc
aggttctcag	gggacagggg
240	
gagcaagagg	tcaagagctg
tgggacacca	cagagcagca
ctgaaggaga	agacctgcct
300	

gtgggtcccc	atcgcccaag	tctgccccac	actcccacct	gctaccctga	tcagagtcac	360
catgcctcga	gctccaaagc	gtcagcgctg	catgcctgaa	gaagatcttc	aatcccaaag	420
tgagacacag	ggcctcgagg	gtgcacaggc	tcccctggct	gtggaggagg	atgcttcac	480
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tctcctgct	atcctctaata	accaagcacc	ccagaggagg	tttctgctga	tgatgagaca	600
ccaaatcctc	cccagagtgc	tcagatagcc	tgctcctccc	ctcggtcggt	gcttcccttc	660
cattagatca	atctgatgag	ggctccagca	gccaaaagga	agagaagtcc	cagcacccta	720
caggctctgc	cagacagtga	gtctttaccc	agaagtgaga	tgatgaaaag	gngactggat	780
tnggtgcagt	ttctgntntt	taagtntcaa	atgaanggaa	ccgatcncaa	anggccgaaa	840
tncttgga	agtgnentna	aaaaattatg	aagaacnntt	tcccttgng	gttaangaaa	900
ccccccaan	gcnnngcnnn	ngnctttgg	gcnttgangn	nnaanggnaa	gggatcccn	960
ttgggccnnt	tcntttggcc	ttggnnncc	ncctngggcc	ctancctnng	aagggggaanc	1020
cnnn						1024

<210> 86

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 86

gnagnnnnn	ttnnngtttcn	gaattggggc	ctctagatgc	atgctcgagc	ggccgccagt	60
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tttctgcac	ccaatcttgg	gtgagcagct	tcttgggctc	cccataaatg	aggtgctcca	180
tcccatcata	cagccccatc	atattcagtg	cttcccagat	gacctcctca	ggggtgcagt	240
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angaagaaga	ngaagaagga	aaagaggatg	gaaaagaagg	actgggtgga	aatggatgat	840
gaagcatnct	tcttcacagc	ccaggggaac	ctgtgcaccc	ctnaagggcc	tggggcttac	900
ttttgggaat	tgaagaactt	ntttaggcnt	gccannngnt	tacccttttg	ganccttnag	960
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<210> 87

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 87

gggnnnnnnt	taactcatac	gccagcttgg	taccgagctc	ggatccctag	taacggccgc	60
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gttccagcat	ctttggtagc	ctgacgctga	gagtcattaa	agtaagctgg	cactgtgacc	180
acagcattgg	taacagtctt	cccaaggtag	gcttctgcaa	tttccctcat	ctttgtcaga	240
accatagaag	acacctcctc	tggatagaag	cttttggctc	ctcccttgta	ttctacttgg	300
accttggggc	tgccagcatc	attcaccacc	ataaagggcc	aatgtttcat	atcagactgg	360
acaacagcat	catcaaactc	gcgtccaatc	agacgttttg	catcaaaaac	tgtgtcgggtg	420


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tgctggaaaa caccacaca agagtaggtg gtgccaagat caataccaac tgcaggtccc 600
ttggacatgg ttgctgggat gtaggcctgg ctccaataac gaaggaagcc acaaaaaccc 660
aagagctgca ggcgaagtcc aatgagaccc cccgcggacc tgcccgggcg gccgctcgaa 720
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acttgggaaa accctggggg acccaactta atcgncctgn agcacaatcc ccntttnncc 900
anctggcgga antnaccnaa aaggcccgna ccgaacggcc ntttccaaaa gttgcncaan 960
cctgaaangg caaaaggacc ccccccttta acggggccat taaaccccn ncngggnnnn 1020
nngg 1024
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<210> 88
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 88

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tcgcctgcag ctcttggggt tttgtggctt ccttcgttat tggagccagg cctacatccc 180
agcaaccatg tccaaggagc ctgcagttgg tattgatctt ggcaccacct actcttgtgt 240
gggtgttttc cagcacggaa aagtcgagat aattgccaat gatcaggga accgaaccac 300
tccaagctat gtcgccttta cggacactga acggttgatc ggtgatgccg caaagaatca 360
agttgcaatg aaccccaccg acacagtttt tgatgccaaa cgtctgattg gacgcagatt 420
tgatgatgct gttgtccagt ctgatatgaa acattggccc tttatggtgg tgaatgatgc 480
tggcaggccc aaggtccaag tagaatacaa gggagagacc aaaagcttct atccagagga 540
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caacattcca anccggaagc cttnagtgt aagccctggg tgcccttaag agtgagctta 900
ctnncantta aatgcgttgc gcttnnttgg ccgttttcca tcgggnaaan ctgcngccaa 960
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gttt 1024
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<210> 89
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 89

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tgctggaatt cgcccttgag cgcccgcccg ggcaggtaga gttcagtaat gttaagtgt 120
ttcacagtgc tgtgcaaaac atttctatct tgcaaaaccg aagttctata tccactaaac 180
aactccgcat tttccctctc cccagccccc gccaaactgcc attctacttt ctgtttctct 240
atatttgact acactagaca cctcatacaa gttaaatcag agagtatttg tttttttgtg 300
actggtttct ttaaacttag cataacatcc tcaagatcca tcaatagtct atcatgtatc 360
atgtattact tcttttttaa ggttgaaaca tattccactg tgtgtgtgtg tgtgcacgtg 420
tataccacgt tttgttttag cattcgcca tcaatggaac ttgggttgct tcgacccttt 480
ggctactgta ttacgttggt ctagcattgc tataaagacc tgagggtggg taatttataa 540
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agaaaagaag ttctgcaggc tataacaagca tgggtgctggc atctgcctgg cttctgggga 600
ggcctcaggg accttttact catggtggaa ggtgaggcag gagcaggcat gccacatggt 660
gaaagcagga gcaagaaaga gtggggaggg tgccatcact taaaaaacca gatcccatga 720
gtattcatta ttgcaagaac agcatcaaac catgaggctt cancccgtgg cccaaacacc 780
ttccaacang ccccaactcg cattaaggat acctttcnaa nntaagggtt gggggggacc 840
aaatntccca actatatcan tgnntttgaa cagggntccc agttctttta aatcccgaag 900
aaatttttta aggantccca acccttttaa ngaactaaag gtttcccga nnnngaaaag 960
tttttnnccc ngggggnaaa attnaatgnn tttncccnaa aaantaantt ttnaaagaaa 1020
nttt 1024

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<210> 90

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 90

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tgatggatat ctgcagaatt cgcccttagc gtggtcgcgg ccgcggtaca tctcctaaag 120
actaatggtc atttacaagt tcaaacatga gataaagtat ttggtgatat gtccatcaag 180
tataactcag aaatcagtaa acaagtcttt tcccaaagta agttccttct aaatgtagct 240
aaaaagagcc actttgtcat taaagtgaat gagtatgcat ttttagaaca gacttgatgt 300
ttggattgtg ttaaacadat gtctgttagt gaaagtgtta gtcacaaaga taaaatttca 360
tctaaaaata atatataagag aaaaatgcaa taaatataca catggtaaaa tacttctctt 420
ttctgtaaac ttttagttct ttataagggt tgtgatataca tttaaaaatt tttctgtatt 480
gaaagaaact ggagacactg ttcatagcag ctgatatagt ttggatattt gtccccaccc 540
aaaccttata ttgaaatgta atccttaatg cggagggtggg gcctgggtggg aggtgttttg 600
gccacggggg tggagcctca tggtttgatg ctgttcttgc aataatgaat actcatggga 660
tctggttttt aaagtggatg gcacccttct ccactctctc ttgctcctgc tttcaccatg 720
tggcatgcct gctcctgcct caccttcacc atgagtnaaa ggnccctgang cctcccagaa 780
gccangcaga tgccancanc attgcttggg tagcctgcan aacttctttt ctttataaaa 840
taccccaacc tnaggcntta tgccatgctt gaacaaccgt aatncntanc ccaanggtcn 900
aaccaaccca ggtccattgg nngggcnaag gnttaacnaa acngngnntc cntgcnena 960
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nttt 1024

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<210> 91

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 91

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tgtgctggaa ttcgccctta gcgtgggtgc ggccgaggta ccttggaagt tatgtcatta 120
atataggctg gttcatcaaa taaagcaaaa ccttgcaata tcagctagat ttacactccg 180
ggacgttgcc caaaggtagg aagaaagcag agggaaatat ttcagtcac atttccaaag 240
tcattatcaa aatctgtgag gaagtttaat cttccaaaga gtcaatgtca gacatcaggc 300
ctctgttgcc tgcttctctc gaggcactag attaggagtc ttcaataaga gacttaacat 360
gaggtatatg gaagatgagg caccgagata agttcatcat taggtgtgag cactgctcac 420
ccttgctggc aagttctcct taagggcctg aagcacaggt gtccaaagaa aagcgttaag 480
tccatcttaa tagaatctat gtggtatatg atgtgggtcag cccctgggtc gtgatcagca 540
agaacctaca gcacagatta tgccctgccc acttcaatga atacctactc tcctccattc 600
tccatcactt tttttgctat caagaactcc ggaccttgcc catgggagaa gtttagagag 660

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gaactcttgt	ggagaactgg	tttattttct	gccctgtgcc	gacgagtttc	agctggccaa	720
gaaaggagtc	aagttattaa	aaagcatcac	aatggagatc	ttccaggctg	ggtttttttg	780
tttttggtgg	taaaactggg	ggaaangggg	actattttatt	ctggccttaa	atcaatnggc	840
aaattaagtc	aagaagaccn	ttttgggaat	gtngactatg	gatnccctcc	taatngaag	900
gagnagcctt	aaaaaggggg	caangtaang	gttttcnggt	atggaagcca	aaanttttnc	960
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gtcc						1024

<210> 92

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 92

nngnnnnnt	tnngantggg	ccctctagat	gcatgctcga	gcggccgccc	gggcaggtac	60
tgcattcata	atttatcgcc	atgtgcaaca	gctttgcgtt	ttctaaggca	caatttttaa	120
tgaaatgatg	tgtagatttc	aatctaataa	cagctcatcc	aaatgacaaa	tatggtcgaa	180
atccctccag	tggctgagga	aattttctga	cctatatgga	acccacatgc	aaagaacca	240
tctagcatgt	aataaataat	cgctagccat	actcaataag	acacggaaaa	attattgctt	300
acataacaga	aaaacatcta	cttgaccccc	ttttatgact	acatcaatct	attaggagtg	360
tatccatagt	ctacattcac	aaaatgtcat	cttgacttat	ttgccattga	tttaaggcag	420
aataaatagt	ccccctttcc	ccagtcttaa	caacaaaaaa	caaaaaacca	gcctggagat	480
ctacattgtg	atgcttttta	ataacttgac	tcctttcttg	gccagctgaa	actcgtcgca	540
cagggcagaa	aataaaccag	ctctccacaa	gagttcctct	ctaaacttct	ccatgggcaa	600
ggtccggagt	tcttgatagc	aaaaaaagtg	atggggagaat	ggaggagaag	taggtattca	660
ttgaagtggg	cagggcataa	tctgtgctgn	aggttcttgc	tgatcacaga	ccaagggctg	720
accacatcat	ataccacata	gattctatta	agaatggact	taacgctttt	ctttggacac	780
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taaggatgaa	ccttaatctc	ggggcctcat	cttccatata	nccctaaggg	taagnctctt	900
taatggaaga	ctcctnaatt	agnggccttg	aaaagaagca	ggcacccgaa	gggcctgagg	960
ctgacattgg	ctcttttnga	agaataaact	ttccttaccg	naatttggaa	aaggaccttt	1020
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<210> 93

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 93

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gctggaattc	gcccttagcg	tggtcgcggc	cgaggtactt	tttcaaagt	cactgaaaga	120
attgtttttg	taacagtatg	caaaatgata	ctgtattgtt	agaacaaaaa	tctgtggagt	180
gttaataactt	tgtagcccaa	attaaagt	ctaagcagta	taaaatgaga	atgacatcat	240
cctttcctag	tatttccaag	tcttagagta	ctctacaccc	tggtggctat	ttatctgggg	300
ttagacttct	ggagactttt	cagatagact	tgaagtctct	ggccttgcc	gggaattact	360
ggctgcccc	ggaagcactg	gagaaggcgg	tggtctcctt	gcccttggtg	tcctgctgtg	420
gcgcattttg	attgagttcc	tggttcggct	ggtcagagt	gctggatagt	gttggccac	480
tccattcctc	aggtttttt	gaagcgggtg	tcttttaggg	agagcctttt	gttcttgaa	540
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gctctgnttt	ccaaatcaac	cctttcanct	tcatttggaa	nccattcag	gaaanccccg	840
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ggnggnccgt	ttnaacctgc	cttttaaagg	gccaattnn	nccctntnna	nnggagcgan	960
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cccc						1024

<210> 94
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 94	
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gatggaggtg	gaggggtgat ttgggaagca gagcacagca gcacaaattt gcttgtaatg 180
tcggcgacta	cagtttctag cctgctggcc tgccttcact gtcctggggg aagctcgggg 240
agaccaggtg	gactggagta gactgttgag agacactggc ctggtgaaga tgtccaggaa 300
accacgagcc	tccagcccat tttccaacaa ccacccatca acaccaaaga ggttcccaag 360
acaaccacga	agggaaaagg gaccctgcaa ggaagtcca ggaacaaaag gctctcccta 420
aaagaccacc	gcttcaaaaa aacctgagga atggagtggg ccaacactat ccagccactc 480
tgaccagccg	aaccaggaac tcaatcaaaa tgcgccacag caggaccaca agggcaagga 540
gaccaccgcc	ttctccagtg ctctcctggg cagccagtaa tttccaggca aggccagaga 600
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ggagagtact	tctaagactt ggaaatctta ggaaagggat gatgtcantc tcattttata 720
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tncagnatca	atttggcatc tgggtccaaa ccattttttt agggcanttt gaaaagtcct 840
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caactcgunc	caaannttgn gnnaacatgg gnnnanatgg gntcctgggg ggaaatgtat 960
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gccc	

<210> 95
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 95	
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cgtctcccca	aagctttatc tgtcttgact ttttaaaaaa gtttgggggc agattctgaa 180
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ttgcaggaaa	aggctaagaa aaaggaaaac cattctaaaa aacaacaaga aactgtccaa 600
atgctttggg	aactgtgttt attgcctata atgggtcccc aaaatgggta acctagactt 660
cagagagaat	gagcagagag caaaggagaa atctggctgc ctccattttt cattctgnta 720
tctcaggtga	actggtanan gggagacatt ngaaaaaat gaaacnacca aaaccattac 780
taatgaggta	ccttnggncc gggaacacgc ttaaggcgaa ttttgcagaa atncattaca 840
ctggcggncc	gttcagcatg ctttttaaagg gccaattnc cttttaaggg agtcgnatta 900

caatttnant	gggccgcgtt	ttacaacgtn	nggaactggn	aaaacccctg	gggtnnccca	960
cttnaannnc	cttggnnnan	aatccccctt	tncnaantg	gggnnnnnnn	ccaaaggccc	1020
cnna						1024

<210> 96
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 96						
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gttttggtgt	ttcatttttt	tctaattgtc	ccccctacc	agctcacctg	agataacaga	180
atgaaaatgg	aaggacagcc	agattttctc	tttgctctct	gctcattctc	tctgaagtct	240
aggttaccca	ttttggggac	ccattatagg	caataaacac	agttcccaaa	gcatttggac	300
agtttcttgt	tggttttttag	aatgggtttc	ctttttctta	gccttttctc	gcaaaaggct	360
cactcagtcc	cttgcttgct	cagtggactg	ggctccccag	ggcctaggct	gccttctttt	420
ccatgtccca	cccatgagcc	ctccactgga	cagctcagta	agcctggccc	ttcattctgc	480
gctgtgttct	tcctctgtga	aaatccaata	cctcttacct	cctctgcatg	caaagattct	540
caaggattgt	cagacttcaa	acgtaacagc	agaaccacca	gaaggtccta	taaatgcagt	600
agtgccttc	tcaagctgtc	aggtctttta	ataggatttg	ggatttaatg	ctatgtattt	660
ttaaaggaaa	gaaataagaa	ttgctagtgt	taaaaatgca	tgtcttttaa	ccaattcaga	720
atctgcccc	aaactttttt	naaaagtcaa	ggaccgataa	agctttgggg	agacngaaaa	780
aaaaaannnn	aaaaagtacc	tgcccgggcn	ggccggtcna	aagggcgaaa	ttcaacacac	840
tgggcggccg	gtacttaatg	gatcccaact	cggncccaac	cttggggaaa	ncatggggcn	900
taactgggtt	cccggggggn	aaatgggtatt	ccggttacaa	attccccccc	annttccana	960
cccggaaanc	cnttaagggt	aaaanccctg	gngggccna	anggggggct	nacctcccct	1020
tnaa						1024

<210> 97
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 97						
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tggtgtccaa	actggtcaat	ccagttgctt	aacacagaaa	gcggacagat	gatcagtgtt	180
gttcttggtc	tctcctcaac	atcagttttc	tttgaccctt	ccactgcaca	agctcccttt	240
ttcaacattt	tcttttttgt	tgtaggaaca	gatgaagtta	atgcacatgc	aaatgccaca	300
tcttctataa	ccttagaaga	tcctttcgcc	ctgcctttag	tttcagactg	tacagagggg	360
gagagagaga	gaaagagagc	acgccagtga	gaaagcgagc	gcgagcgcca	gcgcaagggg	420
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tccacggggc	tgcattctct	gatggtgcac	tgaaaaagca	gagctcacca	gacagagtgg	540
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ccatctcaga	cggagggccc	ccagaagata	gaattccagc	cgactgaaaa	accacccaat	660
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tacctgccc	ggcggncgnt	caangggcga	attctgcaga	tatccatcac	actggcggn	780
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ggcnttggag	nacaattccc	cttttttcca	anntggggna	antnaccaaa	agggccccnn	960
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ttaa

1024

<210> 98
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 98
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atatctgcag aattcgccct tgagcggccg cccgggcagg taccgatgaa acgcgcaact 120
ttgtaatccc aacactttct attttctaga atcttctttg ttcattgggt ggtttttcag 180
tcggctggaa ttctatcttc tgggggcctt ccgtctgaga tggaaactgt cttgggcttg 240
ttgtctcttc cttctgttgc tccctgcccc tccccctgcc ttccactct gtctggtgag 300
ctctgctttt tcagtgcacc atcaagagat gcagccccgt ggacatgaag acacaatctc 360
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aaan 1024

<210> 99
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 99
aacgccagct tggtagcgag ctccgatccc tagtaacggc cgccagtgtg ctggaattcg 60
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agagggtaaa atgaaatctg ccccatcctt cttacatata cagtgatagc attttgaatt 180
gttcttctac atttgaaatc ttagctgaaa gatcatcagc caccgacctt ttgtgaagct 240
agttctctag aacatacaat gttttttaaa aaattaaaaa cacagaagga aaaaagcaag 300
aaccaacgat aaatggagct tgtgcagaat ctggcagtgc tgtggacctg cccatctggt 360
ctcccccgcg tactgactga acacactccc cgctttgggt cctgtaggac gggtagata 420
ccacaccttg gcaaccacca gtaaaggctc atagtctagc ccttgggagg ccccgatttt 480
agggctgtgc tcggaggcga cctacgttag ggactgggag aagcgggtac ctccggccgcg 540
accacgctaa gggcgaattc tgcagatata catcacactg gcggccgctc gagcatgcat 600
ctagagggcc caattcgccc tatagtgagt cgtattacaa ttcacttggc ccgtcgtttt 660
acaacgtcgt gactgggaaa accctgccgt taccacactt aatcgcttg cagcacatcc 720
ccctttcgcc agctgcgtaa taacgaaaag cccgnaccga tcgccctttc cacagttgcg 780
caacctgaat ggcnaatgga ccccccttg taccggcgca ttaaccnccn gccggnntnt 840
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nnnt 1024

<210> 100
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 100
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agtcctaacc gtaggtcgcc tccgagcaca gccctaaaat cggggcctcc caagggctag 180
actatgagcc tttactgggtg gttgccaagg tgtggatatc caccgcctcc acaggaacca 240
aagcggggag tgtgttcagt cagtacgcgg gggagaacag atgggcaggt ccacagcact 300
gccagattct gcacaagctc catttatcgt tggttcttgc ttttttcctt ctgtgttttt 360
aattttttaa aaaacattgt atgttctaga gaactagctt cacaaaaggt cgggtggctga 420
tgatcttcca gctaagattt caaatgtaga agaacaattc aaaatgctat cactgtgtat 480
gtaagaayga tggggcagat ttcattttac cctctagtct ccctcaatgc atgcacggat 540
ttatctgtac ctgcccgggc ggccgctcga aagggcgaat tccagcacac tggcggccgt 600
tactagtga tccgagctcg gtaccaagct tggcgtaatc atggtcatag ctgnttcctg 660
tgtgaaattg ntatccgctc acaattccac acaacatacg agcccgaag ccataaagtg 720
tnaaagccct ggggtgcctn atgagtgagc taactcacat ttaattgcgt tgcgctcact 780
ggcccgnntt cagtcgggaa aactgcntgc cactgcttaa tgaatcggcc acgccccggg 840
gaaaaagcgn ttgcgtantg ggcgctnttc cgctttcttg gttaactgac tcnttgggct 900
ttggccttng gnttnnggnn aacgggttna acttncnttn aaangggggn naatccggtg 960
tnccccgaaa nncggggata acccccggaa anaactttgn ccnaaaggcc cccnaaangg 1020
cccn 1024

<210> 101
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 101
gggnnnnnnt tgaatnacac gccagcttgg taccgagctc ggatccctag taacggccgc 60
cagtgtgctg gaattcgccc ttagcgtggt cgcgggccgag gtacgcgggt attttcttaa 120
attttctgaa tgttctttat ggtagtgtta ctaaaaagt tatgatcaca ttttcattgt 180
gaacataatt tgaactcatt atcacacact tggaaaatac agaaaagtgg aggaaaaaaa 240
atcatatccc caccatccaa agacatatac tctcctctta tcttgttcat tcttgtttct 300
gtgcacaggt ttatgattat aactgtgtca aaatgtatat tcaaaatagc tgttacatta 360
cctttgtgga attatggtta aatactttca ctttaatttt tcaaatgtt ccctataata 420
atgttctgat aacagtgtat tatgtgtgtc tccattgggtg tgcataatac ataccagag 480
gaaaaattag aaaataaagt aaattatttt aaaaaattac ctatattccc aacacctaac 540
aactactgct aacatcttga tctgtttcct ctatcttgtt tcagtgcaca cgcttgatgat 600
aacagtgtta aatatgtgtg cataaagtct taaatgaaaa gatgtggaaa ataactaaaa 660
tagtggtgtc attgtgggaa tttgggttaa tattttgtct caaatcctt aaataatctt 720
tgggtgtttg gtaataaatt ttaatgatgt attttccatt acaaatataa tacatactca 780
tacaaaactt tggaaaatta gtaaaagaaa ttcacacata tccccacacc caacaccaat 840
ttaactggtn accatctgga ctgngcncta agctgggatt antttaggng tagtggataa 900
gtatgcctaa aggccaaaaa tgggaagaag gatgaaaanc cngaaaatan tncctcgtg 960
gtnnngggaa taaggggaat ttgggttcgg ttcctttgaa agggcatnnn tttcaagggg 1020
tttg 1024

<210> 102
<211> 1020

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 102

ggagnnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gccctttcga	gcggccgccc	gggcaggtag	tctttctctc	ccctcctctg	120
aattttaattc	tttcaacttg	caatttgcaa	ggattacaca	tttactgtg	atgtatattg	180
tgttgcaaaa	aaaaaagtgt	ctttgtttta	aattacttgg	tttgtgaatc	catcttgctt	240
tttccccatt	ggaactagtc	attaacccat	ctctgaactg	gtagaaaaac	atctgaagag	300
ctagtctatc	agcatctgac	aggtgaattg	gatggttctc	agaaccattt	cacccagaca	360
gcctgtttct	atcctgttta	ataaattagt	ttgggtttct	tacatgcata	acaaaccctg	420
ctccaatctg	tcacataaaa	gtctgtgact	tgaagttag	tcagcacccc	caccaaactt	480
tatttttctc	tgtgtttttt	gcaacatatg	agtgttttga	aaataaagta	cctcggccgc	540
gaccacgcta	agggcgaatt	ctgcagatat	ccatcacact	ggcggccgct	cgagcatgca	600
tctagagggc	ccaattcgcc	ctatagttag	tcgtattaca	attcactgcc	cgtcgtttta	660
caacgtcgtg	actgggaaaa	ccctgcgtta	cccaacttaa	tcgccttgca	gcacatcccc	720
ctttcgccag	ctggcgtaat	aacgaaaagc	cccggaccga	tcgccctttc	caacaggtgc	780
gcaacctgaa	tggcgaaatg	gacccccctt	ggaaccggcg	cantaaaccc	ccgncggggn	840
nnnngggtac	ccccacggg	ganccgttca	cttggccann	gccctaangn	cccgttcctt	900
tnggtttctt	tccttccttt	ttgcccgttt	gnccgggttt	tcccggnaag	ctttaaaaac	960
gggggcctcc	cccttttang	gtccnaataa	nggcttttac	gggnccttng	aaccccaaan	1020

<210> 103
<211> 1021
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1021)
<223> n = A,T,C or G

<400> 103

ggagnnnttn	ngnnngggccc	tctagatgca	tgctcgagcg	gccgccagtg	tgatggatat	60
ctgcagaatt	cgcccttagc	gtggtcgcg	ccgaggtagt	ttattttcaa	aacactcata	120
tgttgcaaaa	aacacataga	aaaataaagt	ttggtggggg	tgctgactaa	acttcaagtc	180
acagactttt	atgtgacaga	ttggagcagg	gtttgttatg	catgtagaga	acccaaacta	240
atattattaaa	caggatagaa	acaggctgtc	tgggtgaaat	ggttctgaga	accatccaat	300
tcacctgtca	gatgctgata	gactagctct	tcagatgttt	ttctaccagt	tcagagatgg	360
gttaatgact	agttccaatg	gggaaaaaagc	aagatggatt	cacaaaccaa	gtaattttta	420
acaaagacac	tttttttttt	gcaacacaa	atacatcaca	gtgaaatgtg	taatccttgc	480
aaattgcaag	ttgaaagaat	taaattcaga	ggaggggaga	gaaagagtag	ctgcccgggc	540
ggcgcgtcga	aagggcgaat	tccagcacac	tggcggccgt	tactagtgga	tccgagctcg	600
gtaccaagct	tggcgtaatc	atggtcatag	ctgnttcctg	tgtgaaattg	gtatccgctc	660
acaattccac	acaacatacg	agcccgggaag	cataaagtgt	aaagccctgg	ggtgccta	720
gagtgaagta	actcacatta	aatgcgttgc	gctcactggc	cgctttncag	tccgggaaac	780
ctgtcgtgcc	agctgcatta	atgaatccgg	ncaacgcccc	ggggaaaaag	cggttgcgta	840
ttgggcgctc	ttncgctttc	ttggttactg	gctccttng	cctcggccgt	tccggnttcg	900
gnnaaccggt	atcagcttac	ttcaaangcg	gnaaatccgg	tttnccega	aatccggggg	960
ttaacnccag	gaaaanaacc	tttgaaccna	aaggggcccn	aaaaggggccc	ggaaccctaa	1020
a						1021

<210> 104
<211> 1017
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1017)
<223> n = A,T,C or G

<400> 104
ggagnnntta atcnacgcn gcttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccttag cgtggtcgcg gccgaggtag tcagctgtct taataggatg 120
aagccttaag cagtggaaat ttcagttatt tccacagta tccattttg gaggatttg 180
gggtgttact ttttaaattc ttgaacaact taacctccat gaggctttgt gaagtcagct 240
gtgaccaccc tctcttact gtgttctcag tattcattca cttccaggga agaattgacag 300
ccacaggag atggtggtgg gcaagaatga gagtcccagg atccagattt agcctcagat 360
cttccccatt caggaagggt tttccattta acaagagcac tagtatgaaa acattaggga 420
caaatctccc atgtctttga aattcggatt ctctcttga gatccccctc ctcacctgcc 480
aatcaacttt ataaggccac aagtggtcac tggttttcct tccacagggt tgaggttctc 540
agctttcctt aagcgaccca gcagctccgc tgttttcaga gtgaatatgt taagctttga 600
tgagattcta ttttcagtaa gttagtgtct ctgggacact tggagaaagc tgtgagagtc 660
attggctacg caaagaacaa cgaaagctga tctaaaagt gatccaatct aagaaaatgg 720
taaaacgagc tctggccaca gcacagaatt ttatgtgang aactcagatt tttgaagact 780
taacaattgc agaaaaaggn tgcagcctgn acacctatag cccaactttt ntgagccana 840
ctttgggttt tggngggga cntggcacca tgtttgnacc tggccggccg gnccgttcna 900
aagggccaaa ttntggcnga aatnccttac actggggggc cgtttgagca tgcctntaaa 960
ngggcccaan tngnccctta aaggggggcn nnttccaatt nnctgggccc ggttttn 1017

<210> 105
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 105
ggagnnnntt nnntnnngan tgggccctct agatgcatgc tcgagcggcc gccagtgtga 60
tggatatctg cagaattcgc cttttcgagc ggccgcccgg cagggtacaaa catgtgccac 120
gtcaccacac aaaaccaaag tctgtctcaga gagggtgggt atggtgtgca ggctgcaacc 180
tttctctgca attgttaagt cttcaaaaat ctgagttcct cacataaaaat tctgtgctgt 240
ggccagagct cgttttacca ttttcttaga ttggatcact tttaggatca gcttcgttgt 300
tctttgcgta gacaatgact ctcacagctt tctccaagt tcccagaagc actaacttac 360
tgaaaataga atctcatcaa agcttaacat attcactctg aaaacagcgg agctgctggg 420
tcgcttaagg aaagctgaga acctcaaacc tgtggaagga aaaccagtga ccacttgtgg 480
ccttataaag ttgattggca ggtgaggaag gggatctcaa gaggagaatc cgaatttcaa 540
agacatggga gatttgtccc taatgttttc atactagtgc tcttggttaa tggaaaaccc 600
ttcctgaatg gggaagatct gaggctaaat ctggatcctg ggactctcat tcttgcccac 660
caccatctcc ctgtggctgt cattcttccc ctgaagtga tgaatactga gaacacagta 720
aggaaggagg gtggtcacia gctgacttca caaagcccta atgganggtt aagttggtca 780
agaatttnaa aagtaacccc cccaaatcct ccaaaaatgg gaatactggt ggaaaataac 840
ctggaaattn ccctgggtta aggcttcatt ctattaagac cgcttgagta cccttgggcg 900
ngaacccct taagggcgaa ntncacaca ctggngggc cggtacctaa nggatcccaa 960
ctnggnaccc aancnttggg gaaancatng ggccataact gggttcccgg ggggaaatgg 1020
taat 1024

<210> 106
<211> 1007
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1007)

<223> n = A,T,C or G

<400> 106

ggagnnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtacac	agaatagctg	agcagttcac	120
ttcagggatc	aggatcatctc	tgtcctcct	agtttcacca	tgttctggca	ataaaaaaca	180
catattatat	cctggttttc	tctatccttg	cattactaag	gtgactgtct	ctctttatac	240
atccttgtat	ggttctccca	gtattagcaa	gattgtatat	ctgtaaagaa	tgtccagttt	300
tgtaaataatt	tccctgcctt	tttttttctt	tttttacatc	tgattttaat	gcttcgttaa	360
cttcaaaagg	aactggtaga	gttcagaagg	tgagctgttg	tttttctaaa	cctcttccca	420
ggaaggggac	attgacactt	gaatttttgt	cacctttttc	ctcattagaa	ggaaagtaga	480
aagccttact	gtaggatttt	taaaaaaaaa	tccatctcac	cccatattgg	tcttaaataa	540
gtatagacta	attaacctaa	gctaccttta	acaacgtaga	atttaanatg	ggttcatata	600
tgtgagaaaa	acctgaatat	aggacagggg	tcctactttt	ttccccacct	ctgtcgccca	660
ggctagagta	ntaantgggtg	gatcttggcc	cactgcaacc	tctgcttcta	gggtcaagtg	720
attctcctgc	tcaacctncc	aagtancccg	ggaattggaa	gagtatgcca	ccacgcccag	780
ctactttttg	gaatttttagt	nnaaaacagg	ttcatcatgn	tggncccnga	agggcnctta	840
antcctgncc	ttnagngatc	cccccnana	ngaaacctg	gncnncccaa	nnnnnngggn	900
tntagcnnnn	ccrccgngcc	cannctactt	tnnnaannnn	nnnnnnnnnn	nnnnnnnnnn	960
nnnnnnnnnaa	nnrqnncnnn	nccngnnngn	ccnnnnnnngg	gnaantc		1007

<210> 107

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 107

gnagnnnnnn	nngattgggc	cctctagatg	catgctcgag	cggccgccag	tgtgatggat	60
atctgcagaa	ttcgccctta	gcggccgccc	gggcaggtag	tttttttttt	tttttttttt	120
tttttttttt	aattaattag	aaagtaggct	gggcacggng	gctcatgcct	ataatcccag	180
cacttgggga	ggccgaggat	ctcctctctg	gnggatcact	tgagggcagg	agttaagaga	240
ccatcctggc	caacatgatg	aaaccctgtc	tctactaaaa	atacaaaaag	tagctgggag	300
tggtggcata	ctcttacaat	cccggctact	tgggaggctg	aggcaggana	atcacttgaa	360
cctaggaagc	agaggttgca	gtgggccaag	atcacaccac	tatactctag	cctgggagac	420
agaggtgggg	aaaaaagtag	gacccctgtc	ctatattcag	gtttttctca	catatatgaa	480
cccatctaaa	ttctacgttg	ttaaaggtag	cttaggttaa	ttagtctata	cttatttaag	540
accaatatgg	ggtganatgg	attttttttt	aaaaatccta	cagtaaggct	ttctactttc	600
cttctaataa	ggaaaaaggt	gacaaaaaatt	caagtgtcaa	tgcccccttc	ttggggaaga	660
ggttttagaaa	aacaacagct	caccttntga	acttttacca	gttccttttt	gagttaaccg	720
aagcnnntaaa	aatcagatgt	aaaaaangaa	aaaaaaaggc	cgggaaattt	ttaccaaact	780
nggacattct	ttacagatat	acaatcttgc	taaaacctgg	gaaaaccctt	cccnggggtg	840
ttaaagggga	aacagtcctc	cttataatgc	ccgggggttna	gaaaancccg	gatttttnnaa	900
aaaggggttt	tattgcccga	aactggggga	accttngggg	ggncccaaaa	nnaacctgan	960
cccctgaagg	naccgggttn	annnnntttt	tgggaccttg	gccgggaacc	ccctttnggg	1020
ggna						1024

<210> 108

<211> 470

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(470)

<223> n = A,T,C or G

<400> 108


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actatgacca tgattacgcc aagcttggtta ccgagctcgg atccactagt aacggccgcc      60
agtgtgctgg aattcgccct ttcgagcggc cgcccgggca ggtactatct tttttttttt      120
ttttcgtgtn tttgacattc cttgaatctg ttttttatcc cccttccaca gaacaggcct      180
gggactttcc aacaccctgc taaggaagtt ctgtgtccaa gtcccaccca ggctgggttg      240
tccccacctn ctncagccca cacagcccag gcagcatccg ggccagtgcc ctgcatgaca      300
nagggtcttt gttgtgtaat gnttggtccc aagttgcatt ttctaaccga atcagtgtgt      360
tttcatgaaa ctgagtgtta ctgtggacca gtaagttnct ctgttgcctt cagtgggtctt      420
cctgtgtggc tcaagggttc tctgtgagag tctggatttt catttctggg      470
```

<210> 109

<211> 808

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(808)

<223> n = A,T,C or G

<400> 109

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gggcctctag angcatgctc gacggccgcc atgtgatgga tatctgcaga attcggcctt      60
agcgtggctg cggccgaggt acaagtctgc ctaagagaca gaagtgagtn ttataatcta      120
cttgccatt cctcccagca gagaagcagc aggtagatat ggcatgcact gtgcctgctg      180
ctgctgctct tgtggcgaac actcagatgt ggaaccatag agggaccttg aggagctggg      240
acatgattct ttagagaaga gaagagacgg ggagcacagc atgagaatgg ccagtcaacc      300
catttcaaat tcttttatta aagtgcctcc cgaggggcct tgcacaaaga tgatggggag      360
agcagaactg ctgctccttg acagaactct gatccttaca ctttgttttg agtgggcttg      420
gggacagtca caagccatga aacatgaatc caaaatgggt cccagatgag ccatgggtgaa      480
ccaacagatg caagcaactt cttaaactgc tctattaaac actgctttat atgtgtcccc      540
atgatacaga aaagtgggat ggggccagcc attccagaaa tgaaaatcca gactctcaca      600
gagaaccctt gagccacaca ggaagaccac tgaagacaac agaggaacta ctgggtccaca      660
gaaacactca gtttcatgaa aacacactga ttcgggtaga aaatgcaact tgggaacaaa      720
cattacacaa caaagaccct ctgtcatgca gggcactggc ccggatgctg ctgggctgtg      780
tgggctggaa gangtgggga caaccac      808
```

<210> 110

<211> 471

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(471)

<223> n = A,T,C or G

<400> 110

```
actatgacca tgattacgcc aagcttggtta ccgagctcgg atccactagt aacggcccgc      60
cagtgtgctg gaattcgccc tttcgagcgg cgcccgggca aggtacagcg acgtgatgat      120
gtagaggcgc ttcccatcca ggctgagctg gatcatctga gggcctncag ccaccgttt      180
tcccttgacc actaggggct ctggctggga ctttagttcc tcgtcctcca gcaactgcac      240
agggcctccc ttaacaatgc tgctccagag gaagagctgt cctgtgaggc ggggtctctg      300
tgggtcagag atgtcatact gcctcaggct cccatgcagc cagttgctga agtagaggaa      360
gcggtcgtcc agggagagca ggatgtcggt gatcaggcct ggcatttcgg gcagcagcca      420
gcccctcact ttcttggggg gcacctggat caccttctcc actgaccatg t      471
```

<210> 111

<211> 468

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (468)

<223> n = A,T,C or G

<400> 111

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccctagta	acggccgcca	60
gtgtgctgga	attcgccctt	agcgtgggtc	cgcccgaggt	actnnntnc	ttnttttaca	120
tctgatttta	atgcttcgtt	aacttcaaaa	ggaactggta	gagttcanaa	ggtgagctgt	180
tgttttntta	aacctnttcc	caggaagggg	acattgacac	ttgaattttt	gtcacctttt	240
tcctcattag	aaggaaagta	naaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	ggtcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggttcatat	atgtgagaaa	agcctgaata	tangacaggg	gtcctacttt	420
tttccccacc	tctgtcgccc	aggctggagt	atagtgggtg	gatcttng		468

<210> 112

<211> 813

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (813)

<223> n = A,T,C or G

<400> 112

attgggcctc	tnnagcatgc	tcgacggccg	ccatgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	ccgcccgggc	aggtaccatg	ctgacttctt	ggtatctttt	anggcctaata	120
tttcccttcc	ttgagattac	tgtagtgtgt	tccagctaata	ttctatttgg	aaacgagttg	180
gaacagctga	aaactaggta	ttattgaagg	caaagcagcc	tcacgtcagt	tttttatcag	240
ctcatttggg	aagttttntt	ttttttntn	ttaattaatt	agaaagtagg	ctgggcacgg	300
nggctcatgc	ctataatccc	agcacttggg	gaggccgagg	atctcctctc	tggtggatca	360
cttgagggca	ggagttaaga	gaccatcctg	gccaacatga	tgaaaccctg	tctctactaa	420
aaatacaaaa	agtagctggg	cgtgggtggc	tactcttaca	atcccagcta	cttgggaggg	480
tgaggcagga	gaatcacttg	aaccagggaa	gcagaggttg	cagtggggcca	agatcacacc	540
actatactcc	agcctgggcg	acagaggtgg	ggaaaaaagt	nagacccttg	tcctatatct	600
aggctttgct	cacatatatg	aaccatctta	aattctacgt	tgttaaaggt	agcttagggt	660
aattagncta	tacttattta	agaccaatat	gggggtganat	ggattttttt	ttaaaaatnc	720
tacagtaagg	ctttctactt	tccttctaata	gaggaaaang	gtgacaaaaa	ttcaagtgtc	780
natgccctt	cctggggaag	aggtttaaaa	aat			813

<210> 113

<211> 506

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (506)

<223> n = A,T,C or G

<400> 113

nccaacttgg	taccganctc	ggatccctag	taacggcana	cattganctg	atacgccaag	60
cttggtaccg	agctcggatc	cactagtaac	ggncgccagt	gtgctggaat	tcgcccttcg	120
agcggccgcc	cgggcaggta	cgcggggcct	ctggcgctac	catggcggtt	ggcaagagtc	180
accgggatcc	ctacgcgacc	tccgtgggccc	acctcataga	aaaggctaca	tttgctggag	240
ttcagactga	agattggggc	cagttcatgc	acatctgtga	cataattaac	actaccagg	300
atggggcaaa	agatgcagtg	aaagctttga	agaaaangat	ttncaaaaac	tacaatcata	360
aagaaatcca	acttaccttg	tcacttattg	acatgtgtgt	gcagaactgt	ggtccaagtt	420
tccagtctct	gattgtgaag	aaggaatttg	ttaaagagaa	tttagttaag	ctactgaatc	480
ccagatacaa	cttgccatta	gacatt				506

<210> 114

<211> 813

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 114

gggcccnnnn	agctgctcga	gcgcccgcca	gtgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cggccgaggt	acaacttatt	ctaaatattt	tcattttctg	tggtctaaat	120
agaaatatta	agttgcagta	aaaagagaaa	aaaaggctat	ttagcattac	aaagaatcat	180
atttaaaggc	tgcccaatgt	agagctctag	gacctgttca	ggacacctga	aatataatta	240
aatgacaatt	atcaagggtt	taacaattta	taattctaaa	ccagaggatt	ataaagaagt	300
gcaaattgac	ttttacattc	aacttttagt	aaatgaaggc	actcagtatt	cttcctgaat	360
aatacattca	gtttctcaca	ttttatgctt	tcattctatt	agaattattt	catagtaaaa	420
taatctactc	ttatcacagc	tgtgtgacga	tttctaaatg	taggaaggcc	tgtgaaacat	480
gacactgcag	ttaaattggg	tggcctaagg	actaagtaat	ttttcttctg	ctgaagtgtt	540
aagtgagtat	ttgttccaaa	caagttctgt	tgaaatctca	cgctgttgtc	aggaatcagt	600
gttatcctgg	aactgttatt	ctattttaat	ttcattatag	cagaaatgtg	ccaccatggc	660
tttgacatgt	tggtaggtat	tgtcttccag	gcttcaaagc	tgcacagagt	ctacgtttta	720
gagagttggc	acctttgatg	tggtagttag	ctgatcatnc	actttcttct	cagtcaccat	780
cattttgagc	tcctttgtgc	tggtgagcat	can			813

<210> 115
<211> 471
<212> DNA
<213> Homo Sapien

<400> 115

accagctatg	acctgattac	gccaaagcttg	gtaccgagct	cggatccact	agtaacggcc	60
gccagtgtgc	tggaattcgc	ccttagcgtg	gtcgcggccg	aggtaccatg	attttgtgtt	120
caggaaacaa	agaacatgaa	atattacatt	cttcagaatg	ttttcttctg	gccattaaat	180
gaatcaagta	aatgaggcaa	tgaggcacia	ataaggaatt	tagatttcag	caatattttg	240
atccactgta	gctttcagtt	tctgaaactt	tggaaggggc	tacatacttt	gtaagaattt	300
ttggcttata	ttgttaataa	tcaacagagc	caagaaaaca	tttcttagaa	tggtcaaaga	360
caccacctta	gccttccttc	cctgcagcta	taacattatt	tttctaagag	aaaaggcaga	420
gagtcttcac	aaagccatac	cagacttaaa	attaccagag	aacatttttg	t	471

<210> 116
<211> 818
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 116

ttncannngg	cccctagagc	atgctcgacg	gccgccatgt	gatggatata	tgcagaattc	60
gccctttcga	gcgcccgccc	gggcaggtac	tttttttttt	tttttttttt	tttttttggt	120
tgtggtcttg	aactcctggc	ctcaaagtat	cttcctgcct	cagcctccca	aagtcctggg	180
attactggca	tgagtcacca	cacctggctc	attctttttc	ttaatatggc	tctaaatggc	240
tttttatatt	ttttgctttg	gcaatttatt	tctaggaaat	taaataattc	tttcattata	300
atcaagggaa	tgaaagactt	caggaggtcc	atagtggagt	tcaaaacat	atggagtcca	360
ctattctaca	agattataca	ggcaataata	taagtattct	aagggtgttt	aggtagattt	420
atagatgtta	gatttcaaaa	tggtttaata	agtgtttatg	aatttccaag	gtgtatcact	480
aacttctcaa	gatgaaatca	tatatagaaa	ctatcaaaat	tttccttggt	ctgctgtcaa	540
gaaatgaata	atataactgt	aactcacatc	ttaaagggata	gtgcttgaat		600
aagctaattt	acaatgagtt	caagggtatta	ttttaaaatt	cttattgncc	ttagacaata	660
attatgccaa	caaagtgtgaa	aaatattaaa	tctccttctg	ntaatttttc	cagttttatt	720

acccaaaagt cacacaggta atgcaagtca tgaaataaat caaatgagcc cttcctggag 780
agcctacttt atttaccttg ggaaaatgga tgacatnt 818

<210> 117
<211> 467
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

<400> 117
accactatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg cagggtactac tggttttctc 120
cctggcttca cgtgtctctg tgttccccta tgcctggggtg tcctcccagt gcttttcaggc 180
ttcatctect tcctaaccctc tcctttctat tttttttttt ttttttgaga tggagtcttg 240
ctcagtcgcc cangctggag tgctaaccctc tcctttcatg tggagatgga cagggatggc 300
aggagcactg agtgctcttg acaacacccat tgaagatgat gctgacgatc agctaccctg 360
tggagaaggc aggccaggct ggggtgagagg ggagctcctt ggaagtcagg gggctctgtaa 420
ggacagcaag gatctctttg tcccaaccctc cagcagcctt tatgggt 467

<210> 118
<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 118
gggcctctna agcatgctcg acggcccgcca tgtgatggat atctgcagaa ttcgccctta 60
gcgtgggtcgc ggccgaggta cctgggggtct cagggttgct ctggggcctga tcatccactc 120
agatctgtaa ggaggatttg caggatccat ttagaaagat cctccccttac ttccacaagc 180
atggcctttg gctcttaaat acctgtgctg ggggttttgta attatagaaa caacaggaac 240
caaaactcat taatgttgag ctacaaacca gagggaagct tctttctcaa aacagggtc 300
aggcctagaa aaatctagtt ttctgaaatc gctagccagc aacagcactg agatggccat 360
cccagaaaca aggccaacac agaagcaccc ataaaggctg ctggagggtg ggacaaagag 420
atccttgctg tccttacaga ccccttgact tccaaggagc tcccctctca cccagcctgg 480
cctgccttct ccacagggtg gctgatcgtc agcatcatct tcaatgggtg tgtcaagagc 540
actcagtgtc cctgccatcc ctgtccatct ccacatgaaa ggagagggtta gcactccagc 600
ctgggcgact gagcaagact ccatctcaaa aaaaaaaaaa aaaatagaaa ggagagggtta 660
ggaaggagat gaagcctgaa agcactggga ggacacccca gcatagggga acacagagac 720
acgtgaagcc agggagaaaa ccagtagtac ctgcccggcg gccgntcgaa agggcgaatt 780
ccagcacact ggcgggcccgt tactagtgga tcctt 815

<210> 119
<211> 811
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(811)
<223> n = A,T,C or G

<400> 119
gggcctctnn agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
cgtgggtcgcg gccgaggtag tctatttttt gcttgatga ttgatgggtc tttcattatc 120

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tgtgattgac attctatgag taggtgcttt tgctttgcct ataagtcgtt attatgaagg 180
aggaatggtg aataagaagg taatttagaa aagcctatat taaatatacc atgaacattg 240
aatatagcaa gatcttattc tctagttggt atcttagttg ataaattctg tatgtgttat 300
gtgtttgtgt atacatatgt acttaatctg atcggtatct aaaagaagga aaggatggtc 360
aggaaacatt taccataaat gtagccaagg atatcaatta gggtagacaa gaataggaca 420
aaaataggcc agagctcctg aggaggtgat atgggtccct tgatttgcag aaaatgacag 480
cctatccaag tggcccagtg tatgcctccc agtagcagtg ggcattgtaa ctgcagcgac 540
cttattttta aaaccaaaaa cctagtatgt ggacaaagaa catgacaata tttggtacct 600
gcccgggagg ccgctcgaaa gggcgaattc cagcactctg gcggccgtta ctagtggatc 660
cgagctcgtt ccaagcttgg cgtaatcatg gtcatactgt gttcctgtgt gaaattggta 720
tcccgtcac aattncaca cacatacgaa cccggaagca ttaaagtgtt aaagcctggg 780
gtgcctaatt aagtgagcta ctcacattaa a 811
```

<210> 120

<211> 466

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(466)

<223> n = A,T,C or G

<400> 120

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anttgacctg attacgcaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttcgcccttt cgagcggccg cccgggcagg taccacgtt ttgctccaca 120
ctccttgacc acaggggctc ggacacaaac ccctgtcacc aggagagtca gtcagcacta 180
cttgggaggg ctaaaggga atttggaaat aaaattccaa agtttgaggt aaaaaaattc 240
aagtgttgat tttatattct tccctttct gacacagcct aaagcgtagg gggaacatgt 300
gtttatctgt gggagataaa caagatggag tcccaaagac ttttaaaaaa ttttttttta 360
aaaatccact agaatagaaa atacattatt tagatatact ttatgctgag agtgagtata 420
tatgcttgct ctatttaaac ttgtgagaaa aagtgggtat ccttng 466
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<210> 121

<211> 812

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(812)

<223> n = A,T,C or G

<400> 121

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ttgggcccct nnagcatgct cgagcggccg ccagtgtgat ggatatctgc agaattcgcc 60
cttagcgtgg tcgcgccga ggtacaactc tccagggcac aatacgttta cagctgcctt 120
tccttcacat acttttctaa ttcagaacta ctcacaattc taagcaaatt cccattcacg 180
aagtctgtcc ataatgagc cttctctttt tttacatat acatctttaa aaacaaatat 240
ataaaaaatt cttattttgc tggaatgctt tcaatttttc acattttaca tgatcatcac 300
atattttct tatattgaaa ggcattggtt ctgttgacat gtcgtgcaaa gccaaaaaaa 360
aaaaaaaaaa aaagggtctg attgcttttc aattgggtct acacttttcc ttgtctaggc 420
tttgattttt aaagttcatg acagccccc caccagtaga aaccccaagg cttgcatttc 480
ctggtaatcg actggaaacg tcccctgttg gccatgctaa gattccttca acagggatc 540
cctgcattta ttctccttct gcccacccc cacaatgaaa caagatagcc cccatatttc 600
taaagtgtat aagggtatcc actttttctc acaagtttaa ataggacaag catatatact 660
cactctcagc ataaagtata tctaaataat gtattttcta ttctagngga ttttttaaaa 720
aatatttttg taaagtcttt ggggactcca tcttggttat cttccacaga taaaccatgt 780
tcccctacg ctttaggctg tggtcagaaa gg 812
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<210> 122

<211> 467

<212> DNA

<213> Homo Sapien

<400> 122

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	taccatgctg	acttcttggt	120
atcttttaag	gcctaatttt	cccttccttg	agattactgt	agtgtgttcc	agctaatttc	180
tatttggaag	cgagttggaa	cagctgaaaa	ctaggtatta	ttgaaggcaa	agcagcctca	240
cgtcagtttt	ttatcagctc	atttggaag	tttttttttt	tttttttttt	ttttaattaa	300
ttagaaagta	ggctggggcac	ggtggctcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctcctc	tctggtggat	cacttgaggg	caggagttaa	gagaccatcc	tggccaacat	420
gatgaaaccc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgg		467

<210> 123

<211> 864

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(864)

<223> n = A,T,C or G

<400> 123

gggcctctng	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gcccgggcag	gtactttttt	tttttttttt	tcttttttta	catctgattt	120
taatgcttcg	ttaacttcaa	aaggaactgg	tagagttcag	aaggtgagct	gttggttttc	180
taaacctctt	cccaggaagg	ggacattgac	acttgaattt	ttgtcacctt	tttcctcatt	240
agaaggaaag	tagaaagcct	tactgtagga	tttttaaaaa	aaaaatccat	ctcaccat	300
attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	gtagaattta	360
gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggtcctac	ttttttcccc	420
acctctgtcg	cccaggctag	agtatagtgg	tgtgatcttg	gccactgca	acctctgctt	480
cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	taagagtatg	540
ccaccacgcc	cagctacttt	ttgnattttt	agtagagaca	gggtttcatc	atgttgacca	600
ggatggntct	ttaactcctg	ccctcaagtg	gatccaccag	agaaggagat	cccttggnct	660
tcccgaagtg	cctggggatt	attaggcatt	gaagcccacc	cgtggcccca	agccctacnt	720
tttcttaaat	taaattttaa	aaaaaanaaa	nnnnnnnnnn	nnaaaaaaaa	ccttttcccc	780
aaattgganc	ctgggtttta	aaaaacctgg	acccttnaan	gggcntggnt	tttgccctt	840
tnaaataaat	tncccctaag	gnnt				864

<210> 124

<211> 467

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(467)

<223> n = A,T,C or G

<400> 124

antatgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacatgcac	acacacacac	120
acacacacac	acgtgtctac	tgggctcctt	ttggattttt	tagttcaatc	agaaatcacc	180
aaacagatca	ataaagaggc	aatgttaaat	gaccgggaaa	ttggtaatgt	gacatcacia	240
cactgccttt	aaggtgccat	atctaaatcc	aggtagcact	gctgctagca	gaatctgttg	300
tttttaggaga	caaggggtggg	ctgggtatgc	tggctcgtgc	ctataattcc	agcactttga	360
gagggcaagg	caggagaacc	acattaggct	aggagtthan	gaccagcctg	ggcaacatag	420
tgagatccca	tctctacaaa	aataaaaaaa	ttagctttcc	agctgct		467

<210> 125

<211> 833

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(833)

<223> n = A,T,C or G

<400> 125

gnnnnnnnnn	ngnnttnnnn	ntttaataga	tgagcgtacg	gngcctgtaa	agcatgctcg	60
agcgcccgcc	atgtgatgga	tatctgcaga	attcgccctt	agcgtggctg	cggccgaggt	120
acctgatata	gtttaacttt	cctctttatc	tttcttagag	atacttcaca	tgtgggacag	180
attatatttt	ggaaagatgt	ccacaacaat	attgcccata	ccacattgct	catcttacia	240
tgtgatctca	agactcctcc	cactgagtgg	gtgagaaggg	acttatacca	ctttcatttg	300
aatctaggca	gatctgtgtg	acagccttga	ccaatagagt	atgggttaaag	tgatgcccc	360
aggcatggtg	gcccatacct	ggaatcctgg	tttttcctgg	aggcccaggt	gggggtagag	420
gtgaggggga	tgattgtttg	aacacacgag	tttgagacta	ccctgagcaa	cacaatgaga	480
ccctattttt	ttttaatgat	ttctgaagca	gaatcacaaa	tagccgtgctg	tttttttctt	540
gcgcttttag	gatacttact	tttaaaaccc	agtcaccata	ttgttaggaa	gccccaaacag	600
cacacataga	gagacatacg	gagaagccaa	ccatagaggt	tcctgttgac	agctcantcg	660
aggtcttaac	caacagtcac	acttagctgc	cagccatatg	agtgaagggc	ttncagatga	720
ttctaacgcc	cagcagttgg	gtccccccag	cctgtaagcc	ttcccagctg	aggcctnaca	780
atgatggagc	anagaaaagt	gtccctgtcc	aaattctgac	ccatgataaa	atg	833

<210> 126

<211> 788

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(788)

<223> n = A,T,C or G

<400> 126

nnnnnnntnn	nnacanttga	ctgataccca	acttggtacc	gactcggatc	cactagtaac	60
ggccgccagc	gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtag	gcgggggatc	120
agagagaagc	gaggttctcg	ttctgaggga	caggctcgag	atcggttgaa	gagagcgggc	180
ccaggctctg	tgaggaggca	agggagggtg	gaaccttgct	ctcagagggt	gactcaagtc	240
aacacaggga	accctctttt	tctacagaca	cagtgggtcg	caggatctga	caagagtcca	300
ggttctcagg	ggacaggagg	agcaagaggt	caagagctgt	gggacaccac	agagcagcac	360
tgaaggagaa	gacctgcctg	tgggtcccca	tcgcccaagt	cctgcccaca	ctcccacctg	420
ctacctgat	cagagtcata	atgcctcgag	ctccaaagcg	tcagcgtgct	atgcctgaag	480
aagatcttca	atcccaaagt	gagacacagg	gcctcgaggg	tgacacaggct	cccctggctg	540
tggaggagga	tgttctatca	tccactttca	ccagctcctc	ttttccatcc	tcttttccct	600
ctccttctnt	ttctnctnct	nctnctgcat	ctntaatacc	aagcacccca	naggagggtt	660
ctgctgatga	tgagacaccc	aaatncttcc	anagtgtctna	anatagcctg	ntncttcccc	720
cttnggnent	gctttccctt	ncnttanatt	naatnctgat	taaggggttc	cancanncca	780
aaaggaat						788

<210> 127

<211> 766

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(766)

<223> n = A,T,C or G

<400> 127

gggcctctna	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactccaggt	agttttcctg	cacccaatct	tgggtgagca	120

gcttcctggg	ctccccataa	atgaggtgct	ccatcccatc	atacagcccc	atcatattca	180
gtgcttccca	gatgacctcc	tcaggggtgc	agtagccctc	tatgaagatt	atgcttagga	240
taagtatgag	aatgccagtc	ttgggcatgc	tctggacatc	actcagcatc	ccatcatagg	300
tgaggcccag	ggaggtgaca	aggacaaagg	agtggccagt	gggatccact	tcctttacat	360
caatgccaaa	gaccagcagc	atgcactcgg	aggcttcact	aaacaacaaa	gggaagtggg	420
cttcataatt	ttttatgaca	ctctccagta	tttctgcctt	tgtgatcggc	tccttcattt	480
gataacttgaa	gagcagaaac	tgcaccaaata	cagtcacctt	ttcatctatc	tcacttctgg	540
gtaaagactc	actgtctggc	aggacctgta	gggtgcttgg	actctcctcc	ttttggctgc	600
tggagccctc	atcagattga	tctaattggaa	gggaagcaac	gaccganggg	gaggagcagg	660
ctatctgagc	actctgggga	ggatttggtg	tctcatcatc	agcagaaacc	tnctctgggg	720
tgcttgggta	ttagangatg	gcaggaagaa	gaagangaag	aggaag		766

<210> 128

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 128

gnnnnntnnn	nacactantt	tnngacccgn	canctgggtac	cgactcggac	cactagtaac	60
ggccgccagt	gtgctggaat	tcgccctttc	gagcggcccc	cccgggcagg	tactcctcat	120
cctgcgtttg	gtctccaggt	gtcgcccttc	tgccgtgttc	ctaataattt	gattcctgtc	180
ttgaaaaaag	cacctgctgc	acagtaagcc	cagggatgtg	gcagctgcag	cgggcttggc	240
tttgtgagga	accgggtgtg	tccacgttgg	gggaacatca	tacttgatac	acacgttttt	300
atattgcacaa	agaaaatgct	atttttggag	ccagaatttt	catgtctgat	ttatgggtgat	360
tttcttaaga	accagaactg	ctggcagaaa	gggggcaccc	acacgcttag	atagccgatg	420
tcttattaga	gggcagtttg	tggttcctga	tttggaattt	aatattctcc	aaacattcca	480
gtccaatgaa	agttttatcc	gctttcccat	gtaaaaattc	ttcccatgag	agtgacttga	540
tcctcacaa	cccgttgaag	tcgtgtgtga	gtcctacagt	attagggtca	gcattgccgt	600
ctncaagtgc	tctttgtagg	gaaacagttt	ctgggtcatga	caagcttcca	cttccatctg	660
atcctggcct	ggcctggaaa	cagagcacat	gtgtttgagg	atggcngtgt	ttggggacag	720
gacatgancg	tattgtgtgg	ggctgctagg	acangcgtgg	tgtggtgggg	gantgtccn	779

<210> 129

<211> 774

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(774)

<223> n = A,T,C or G

<400> 129

ttnnnantgg	gcccntngag	catgctcgac	ggccgccatg	tgatggatat	ctgcagaatt	60
cgcccttagc	gtggctcgcg	ccgaggtacc	tgggtgggac	tgggaaactg	tgaaacaagt	120
agactgactt	ggacactccc	ccaccacacc	acgcctgtcc	tagcagcccc	acacaatacg	180
ctcatgtcct	gtccccaaac	accgccatcc	tcaaacacat	gtgctctgtt	tccaggccag	240
gccaggatca	gatgggaagt	ggaagcttgt	catgaccaga	aactgtttcc	ctacaaagag	300
cacttgagga	cggcaatgct	gaaccttaata	ctgtaggact	cacacacgac	ttcaacggga	360
ttgtgaggat	caagtcactc	tcattgggaag	aatttttaca	tgggaaagcg	gataaaactt	420
tcattggact	ggaatgtttg	gagaatatta	atttccaaat	caggaaccac	aaactgccct	480
ctaataagac	atcggctatc	taagcgtgtg	ggtgccccct	ttctgcccagc	agttctgggt	540
cttaagaaaa	tcaccataaa	tcagacatga	aaattctggc	tccaaaaata	gcattttctt	600
tgtgcaaata	aaaacgtgtg	tatcaagtat	gatgttcccc	caacgtggac	acaccccggt	660
tcctnacaaa	gccaagcccc	ctgcagctgc	cacattcctg	ggcttactgt	gcacangtgc	720
tttttttaag	acaggatcaa	atnttaggac	ccngnanaan	gcaacacctg	gaga	774

<210> 130
<211> 803
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(803)
<223> n = A,T,C or G

<400> 130
ggnnnnntnn anacgnatcn gacctganta cgccaacttg gtaccgagct cggatccact 60
agtaacggcc cgccagtgtg ctggaattcg cccttagcgt ggtcgcggcc cgaggtagct 120
tggaagtatt gtcattaata taggctgggt cgtcaaataa agcaaacct tgcaatatca 180
gctagattta cactccggga cgttgcccaa aggtaggaag aaagcagagg gaaatatttc 240
agtcattcatt tccaaagtca ttatcaaat ctgtgaggaa gtttaattct ccaaagagtc 300
aatgtcagac atcaggcctc tgttgccctgc ttctctcgag gcactagatt aggagtcttc 360
aataagagac ttaacatgag gtatatggaa gatgaggcac cgagataagt tcatcattag 420
gtgtgagcac tgctcaccct tgctggcaag ttctccttaa gggcctgaag cacagggtgc 480
caaagaaaag cgttaagtcc atcttaatag aatctatgtg gtatatgatg tggtcagccc 540
ccggtctgtg atcagcaaga acctacagca cagattatgc cctgccact tcaatgaata 600
cctactctcc tncattctcc atcacttttt ttgctatcaa gactccggac cttgcccatg 660
gagaagttaa gagaggaact cttgtggaga gctgggttat tttctgccct gtgcgacgag 720
tttcagcttg gccaaagaaa ggagtcaagg ttattaaaaa gcatcacaat ggtagatctt 780
ccaggcttgg ntttttttgt ttt 803

<210> 131
<211> 818
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 131
antgggcctc tnnagcatgc tcgacggccg ccatgtgatg gatatctgca gaattcgccc 60
ttngcccgtc ttccagnccg gaaacctgtc ntgccagntg cattaatgaa tcngccaacg 120
cgcgngnaga ggcggnntgc gtattgggcg ctcttcgctc tcctcgctca ctgactcgct 180
gcgctcggcc gttcngctgc ggcgagcggt atcagctcac tcaaaggcgg taatacngtt 240
atccacagat caggggatan cggcaggaaa gaacatgtga ncaaaaggcc agcaaaaggc 300
caggaaccga aaaaaggccg ctttggttgc gtntnaccat aggctcnncc cccttgacna 360
gcttcacaaa aatctacgct cagntcccag gtgcnaaatc ccganaggac tntaangatt 420
cnnngnnttt cccctgaan nctnccant gcgctctcct gtnccaacct tgccgtttac 480
cggatacctg nccgcctnna tnccttcgng aagentggct tttnaatngg ctcaactttt 540
gggnatctaa aancggnnta ggcnngnncgt tnnaaantng nntttttgcn caaaccctc 600
gtttaaactn acctatgngc attatcccgg aaacttttgg tnttngaate caaccnggna 660
aanacacnan ttaatnngcc nttggcntga aaccacttg ggtnaaccat ggattttggc 720
ncnaccnagg gtnntttttn nggcnggtnc ntaccgagag ttctttnaaa acnggggtggg 780
cncttanacc tatcnggnnt tcccctttan aaaaaaat 818

<210> 132
<211> 777
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 132

acnntatgac	ntgantaccc	aacttggtac	cgactcggac	cactagtaac	ggccgccagt	60
gtgctggaat	tcgcccttcg	gcccgcccg	gcaggtacct	ggaaaataac	ttctttcttt	120
tcctctagat	tttcgaagaa	gcaaataaat	caagaataga	aacctatata	taggaggttg	180
ggcctcctgc	aaagaatgaa	gcactttttg	ttaaatacag	gagaggctac	ttggctgcac	240
taatatgtgc	tttttggaat	cttatagagt	gtcaccaagt	tgaactttgg	aatggcttga	300
atcatccctg	gagcatctgt	gccgggcagt	caggagttag	tgcaccgcct	cccacccagc	360
cccattgggc	ctcacaccct	cttcattcct	ttcccatga	ggcaggcaaa	cacggtcacg	420
accattttgg	ggttcacttc	aaccaggtct	tctggcaggg	catacactct	tgctccaatt	480
tttcggggcca	tagagatggc	atattttgca	ttgttgagtt	tctcatcatc	attcagattt	540
tctgtcttca	gaaggtcata	gttaatggaa	cctggttgga	tggcatcgat	gangtccaga	600
acaggcagac	ttgtacctcg	gccgcgacca	cgctaagggc	gaattctgca	gatatncatc	660
acactggcgg	gccgntcgag	catgcatcta	ganggcccaa	ttcgccctat	agtgaagtcg	720
attacaattc	actgggccgt	cgttttacaa	cgtcgtgact	gggaaaaccc	tcgcttn	775

<210> 133

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(775)

<223> n = A,T,C or G

<400> 133

ntgggcctct	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcggccgagg	tacaagtctg	cctgttctgg	acctcatcga	tgccatccaa	120
ccaggttcca	ttaaactatga	ccttctgaag	acagaaaatc	tgaatgatga	tgagaaactc	180
aacaatgcaa	aatatgccat	ctctatggcc	cgaaaaattg	gagcaagagt	gtatgccctg	240
ccagaagacc	tgggtgaagt	gaacccccaa	atgggtcatga	ccgtgtttgc	ctgcctcatg	300
gggaaaggaa	tgaagagggt	gtgaggccca	atggggctgg	gtgggaggcg	gtgcactcac	360
tcctgactgc	ccggcacaga	tgctccaggg	atgattcaag	ccattccaaa	gttcaacttg	420
gtgacactct	ataagattcc	aaaaagcaca	tattagtgca	gccaaagtagc	ctctcctgta	480
tttaacaaaa	agtgttcat	tctttgcagg	aggcccaacc	tnctatatat	aggtttctat	540
tcttgattta	tttgcttctt	cgaaaatcta	gaggaaaaga	aagaagttat	tttccaggta	600
cctgcccggg	cggccgaang	gcgaattcca	gcacactggc	ggccgttact	agtggatccg	660
agctcgttac	caagcttggc	gtaatcatgg	tcatagctgt	ttcctgtgtg	aaattgntat	720
ccggtcacaa	ttcccacaca	tacgaacccg	gaagcataaa	gtgtaaagcc	tgggg	775

<210> 134

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 134

acnnttgacc	tgataccag	ctggtcggac	tcggacccta	gtaacggccg	ccatgtgctg	60
gaattcgccc	ttgagcggcc	gccggggcag	gtctataagt	ctttaaattg	ggtcgtgttt	120
ttagcaggta	agactaattt	atctcttctc	cagtgaattg	atgctgggtg	gattcgattt	180
cacatcacaa	cttatattga	tagggatttc	cttcccaaga	gtaataaatt	gtttggtttg	240
atataaactt	gggggcatat	tcaatatcaa	ggtacttttt	tttttttttt	aagttttagt	300
tcagaataac	attaattttg	agagattgag	gtaaagaacc	ttaactaatg	ctaaggagtt	360
tattttgatt	aacataggtt	attctgacca	ccacctcttc	cttccttaat	ctccttagaa	420
tctgacagtc	tcaaagctgt	cacacaaatt	agactaattt	tgacactttg	aaatgaaaac	480
ttcaaggaag	aagtagccac	ggacagttat	gtttataatc	agtaggtggc	actctttcct	540
caggtagccc	cccattttca	catgatgtgt	ttgaaggtta	aatgccccaa	aagtgtgag	600
tcagctataa	aactaagtc	ctgaattcca	tggccctttt	aaatatgtaa	tcattcaaga	660

ttgaaaaaaa aaattaagca ttttttgntt gnttgcttgg ttggttttga gacngagttt 720
cactcttgnt ggccaggctg gaggcgcaatg gcgccatctn actcactgna ag 772

<210> 135
<211> 784
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 135
ntgggctct nnagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60
tagcgtgggc gcggcccagag gtacttcttt tgaataattc agtattttta aaatgcaagc 120
caggcacagt ggctcacgcc tgtaatccag cactttggaa ggccgagggt gggggatcac 180
gaggtcagga gttcaagacc agcctggcca acatggtgaa acctcatctc tactaaaa it 240
acaaaaacta gctgggcatg gtggcgggca cctgtaaccc cagctacttg gagggctgaa 300
ggagaattgc ttgaatccgg gaggcagagg ttgcagttag ctgagatggc gccattgcac 360
tccagcctgg ccaacaagag tgaaactccg tctcaaaaac aaacaagcaa acaaacaaaa 420
aatgcttaac tttttttttc aatcttgaat gattacatat ttaaaagggc catggaattc 480
agggacttag ttttatagct gactcagcac ttttggtggc atttaacctt caaacacatc 540
atgtgaaaat ggggggctac ctgaggaaag agtgccacct actgattata aacataactg 600
tccgtggcta cttcttcctt gaagttttca tttcaaaagt tcaaaattag tctaatttgt 660
gtgacagctt tgagactgtc agattctaag gagattaaag gaanggaaga ggtggtgggc 720
agaataacct atgttaatca aaaataaact tccttagcat taagttaang gtctttacct 780
caan 784

<210> 136
<211> 768
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 136
acnttgantg naccacttg tccgactcgg atccctagta acggcgcagt gtgctggaat 60
tcgccctttg agcggccgccc gggcaggtag tttttttttt cttttttttac atctgatttt 120
aatgcttcgt taacttcaaa agggaaactgg gtagagttca gaaggtaggc tgttggtttt 180
ctaaacctct tcccaggaag gagacattga cacttgaatt tttgccacct ttttcctcat 240
tagaaggaaa gtagaaagcc ttactgtagg attttttaaaa aaaaatccat ctcaccccat 300
attggtctta aataagtata gactaattaa cctaagctac ctttaacaac gtagaattta 360
gatgggttca tatatgtgag aaaaacctga atataggaca ggggtcctac ttttttcccc 420
acctctgccg cccaggctag agtatagtgg tgtgatcttg gccactgca acctctgctt 480
cctaggttca agtgattctc ctgcctcagc ctcccaagta gctgggattg taagagtatg 540
ccaccacgcc cagctacttt ttgtattttt agtagagaca gggtttcatc atgttgacca 600
ggatggtctc ttaactcctg ccctcaagtg atccaccaga gaggagatcc tcggccttcc 660
caagtgtcgg gattataggc atgagccacc gtaccacgcc tactttctaa ttaattaaaa 720
aaaaannnnn nnnnaaaaaa acttnccaaa tgactgataa aaaactgc 768

<210> 137
<211> 777
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(777)

<223> n = A,T,C or G

<400> 137

ttgggacctct	ngagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcggccgagg	taccatgctg	acttcttggt	atcttttaag	gcctaatttt	120
cccttccttg	agattactgt	agtgtgttcc	agctaatttc	tatttggaag	cgagttggaa	180
cagctgaaaa	ctaggtatta	ttgaaggcaa	agtagcctca	cgtcagtttt	ttatcagctc	240
atttggaag	tttttttttt	tttttttttt	ttttttaatt	aattagaaag	taggctgggt	300
acgggtggctc	atgcctataa	tcccagcact	tggggaggcc	gaggatctcc	tctctggtgg	360
atcacttgag	ggcaggagtt	aagagaccat	cctggccaac	atgatgaaac	cctgtctcta	420
ctaaaaatac	aaaaagtagc	tgggcgtggg	ggcatactct	tacaatccca	gctacttggg	480
aggctgaggc	aggagaatca	cttgaacctc	ggaagcagag	gttgcagtgg	gccaagatca	540
caccactata	ctctagcctg	ggcggcagag	gtggggaaaa	aagtaggacc	cctgtcctat	600
attcaggttt	ttctcacata	tatgaacca	tctaaattct	acgttggtta	aggtagctta	660
ngttaattag	tctatactta	tttaagacca	atatggggtg	agatggattt	ttttttaaaa	720
atcctacant	aaggctttct	actttccttc	taatgaggaa	aaaagtggca	aaaattt	777

<210> 138

<211> 950

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(950)

<223> n = A,T,C or G

<400> 138

nnnnnnnnnn	nnnnnnnnnn	ntnnnnnnnn	nnnnnaaaanc	cnnnnnttna	nnngnnaaac	60
cccattggna	aanttaaccn	ncceccaaaa	gccctttngg	ggtttaaccc	ccgaaagcct	120
tccgggggna	atccccaact	ttaagttaaa	acngggggccc	cgggcccaag	ttgggtggcc	180
tttgggggaa	aatttccgcc	ccctttccga	agccggggccc	ggccccgggg	gccaagggta	240
ccatgggaat	ggttaccttt	tggcaagaac	tggcacaacc	ctggaaattt	tggtattttt	300
gctttggaca	ttggccctaa	attaattaag	tttcaagggt	gtcaggcttt	acccactttt	360
tggtctggca	acatgcagaa	gagacagtgc	ccttttttagt	gtatcatatc	aggaatcatc	420
tcacattggg	ttgtgccatt	actgggtgcag	tgactttcag	ccacttgggt	aagggtggagt	480
tggccatatg	tctccactgc	aaaattgctg	attttccctt	tgtaattaat	aagtgtgtgt	540
gaagattctt	tgagatgagg	tatatatctc	actcttcctc	aaactataag	tttttttaag	600
taaaagaaaa	tttattatga	aactaaagga	ataaaaagaat	gaccactcca	taggcagaga	660
aacgtcactt	taaggttttg	acgtcaattg	atttttgtcc	aatcaataa	ttactgcaat	720
gattgaaaaa	tgattattac	taagtttggt	ttcattgtct	caaggtctgc	tgaactctgg	780
atccaggctg	tgtcaacagg	gtagtgtggg	gcctcctgta	cctcggccgc	gaccacgcta	840
agggcggaatt	ctgcagatat	ccatcacact	ggcggccggt	cgagcatgca	tctagagggc	900
ccaattcgcc	tatagtgagt	cgtattacaa	ttcactggcc	cgcgttttag		950

<210> 139

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 139

ttgggcccct	agagctgctc	gagcggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcggccgagg	tacaggaggc	accacactac	cctgttgaca	cagcctggat	120
ccagagttca	gcagaccttg	agacaatgaa	aacaaactta	gtaataatca	tttttcaatc	180
attgcagtaa	ttattgattt	ggacaaaaat	caattgacgt	caaaacctta	aagtgcagtt	240
tctctgccta	tggagtgggc	attcttttat	tccttttagt	tcataataaa	ttttctttta	300
cttaaaaaaa	cttatagttt	gatgaagagt	gagatatata	cctcatctca	aagaatcttc	360

acacacactt	attaattaca	aaaggaaaat	cagcaatttt	gcagtggaga	catatggcca	420
actccacctt	acccaagtgg	ctgaaagtca	ctgcaccagt	aatggcacia	accaatgtga	480
gatgattcct	gatatgatac	actaaaaagg	gcactgtctc	ttctgcatgt	tgacagacaaa	540
aagtgggtaa	gctgacactg	aaactaataa	ttaggcaatg	tcaagcaaat	acaaattcag	600
gttgacagtc	tgcaaagtaa	catccatgta	cctgcccggg	cngnccgctc	gaagggcgaa	660
ttccagcaca	ctggcggccg	ttactagtgg	atccgagctc	ggtaccaagc	ttggcgtaat	720
catgggcata	gctggttcct	gtgtgaaatt	ggtatncgct	cacaattncc	acaacatag	779

<210> 140

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 140

gcccntagag	catgctcgac	ggccgccagt	gtgatggata	tctgcagaaat	tcgcccttag	60
cgtggctcgcg	gccgaggtac	cagggtgggt	gacgcacatc	ccctaaacat	tctggatctc	120
ttactcatcg	tgaaaggcag	acgctctaag	tctaaagtct	agggtaggag	tttccattct	180
ttggaaaacc	aaagatgggt	actcttctta	atgaaactga	gaagaaggta	tctacagaaa	240
acactgaatt	taaacaaatt	atgaccttgt	ttgttgaagc	catcaaggac	ccaagatata	300
tcaaagaaca	acatctctgt	attggcctac	aggttcagag	tgttttgagg	tctgtttaag	360
cactaatagg	atttttaggcc	agcatccagt	cagaagagat	agttcacaga	ctcagagttg	420
gaaacagatt	aaaaaaaaaa	agatgtcaac	atagaaaatg	atgatagagt	ttagttaaaa	480
aaattcacac	ataaaattac	agttaaaaaa	attcacacat	aaaatagagt	gtttgcatag	540
caagacatta	ttgcccttca	gcctggcaga	aaaacataaa	ctcaggtgta	tattttataa	600
taaacattgt	attgaatgct	aagaatgata	cactgttgaa	catctcctga	atgggttgcc	660
ttcttgtaaa	tcataccaat	tgtttagaca	attgaaattc	caagctcttt	ctcttctccc	720
atataaaaaac	caacagaaac	anggaggctg	ttagtagcaa	gctcctcatg	ggaaanggt	779

<210> 141

<211> 986

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(986)

<223> n = A,T,C or G

<400> 141

aanccnnnnn	ntttatttgg	gnaaacccaa	ttgggnaaaa	ttnaaccn	cccccnaaa	60
ngcccttttn	gggggttnaa	ccccccggaa	aaccctttcc	gggggggaaat	cccccaacct	120
ttaaagnttt	aaaaacccgg	gggccccggg	cccccaaagt	ttgggttggc	cnttggggga	180
aaaatttttt	ccgggcccc	cnttttaag	cccggttggg	gtttccggcc	ngggggcccc	240
gggaaagggt	tnaccctttt	ttttttaact	tttttnnntt	tccttttttn	nttccttttt	300
tttctttttt	ttttctttg	gtntnnnttt	ttttttcaat	tttttggttt	ttgggttttg	360
gttatgggtt	ttttagaaca	ggggtccac	tctgtcaccc	aggctggagt	gcagtgggtg	420
aatcacaggt	cactgaaacc	tcccacctag	ctgggactag	aggtgcaggc	caccacacca	480
gctaatttat	gtaatttttg	tagagacgag	tttcaccacg	ttacctaggc	ttgtcttgaa	540
cacctgggct	caagcaatct	tccagcccca	gcctcccaaa	gtgctgggat	tacaggtata	600
aaccacaatg	cccccgtttt	tactctttac	tgcatccttc	ccatcagtat	taattcctca	660
gaaatttagt	acccctgtgc	ttcattcagt	atcagtaacc	ctgcaatgat	ttttacaaat	720
atctttttct	agtgggtttt	ttacttagag	gaaagaactt	tgtaatagct	cttaatgttt	780
atatataaga	gaagacagaa	tggaaaatgt	tttttgaaat	caaatattgc	atgatgtaaa	840
gaaaaaactt	taaacttaaa	tgagtanggt	tgtcctgaat	tacactggta	actctctact	900
tctttattaa	agaagttata	gtaagatgcc	tttggntacc	tgattttcagt	gtacctgccc	960
gggccggccg	ntcaaaaggg	cgaant				986

<210> 142
<211> 780
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 142
gggcccgtan agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccctt 60
tcgagcggcc gcccgggcag gtacactgaa atcaggtaac aaaggcatct tactataact 120
tctttaataa agaagtagag agttaccagt gtaattcagg acaacctact catttaagtt 180
taaagttttt tctttacatc atgcaatatt tgacttcaaa aaacattttc cattctgtct 240
tctcttatat ataaacatta agagctatta caaagttctt tcctctaagt aaaaaacca 300
ctagaaaaag atatttgtaa aaatcattgc agggttactg atactgaatg aagcacaggg 360
gtactaaatt tctgaggaat taatactgat ggggaaggatg cagtaaagag taaaaacggg 420
ggcattgtgg tttatacctg taatcccagc actttgggag gctggggctg gaagattgct 480
tgagcccagg tggtcaagac aagcctaggt aacgtggtga aactcgtctc tacaaaaatt 540
cataaattag ctggtgtggt ggccctgcacc tctagtccca gctagggtggg aggtttcagt 600
gacctgtgat tgcaccactg cactccagcc tgggtgacag agtgggaccc tgtctaaaaa 660
aaacataaca naacanaacn naatgaaaaa aaaaacaaga aaaaagaata gaaaaagaaa 720
aaagtnaaaa gtncctcggg cgcgaccacg ctaagggcga attccagcac actgcggccn 780

<210> 143
<211> 794
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 143
nnnnnnnnnn nnnacnnttg actgataccc aacttggtac cgactcggac cactagtaac 60
ggccgccaagt gtgctggaat tcgccctttc gagcgggcgc ccgggcaggt acagaaagaa 120
gagccaggat attctttgtt ttcctaagcg tagctgtgag caacattatc tctcctactg 180
gcttctttga ggtatgagag tcatcattac atctgtgtgc tttgtcaagt tatatgtcac 240
aattccacct gtgggtagag aacaagcaca agagtcacat caactgtgtg ctgggccagg 300
gttatgtcac aatcttcctt gagagcatgc accaggcaga agagtcacat cacagggttc 360
tcaaccagag atgttacaat cctctcctga aagcaggaca caggaaaaag agtaagatca 420
cctgcatgct gggctcagat atatgtcaca agactcactg tgggcaaagt ccagaaggac 480
agacagaaca gctggttgct tgacccagca atatgtcaca atcttctcta tgggcagaat 540
gcaggcagaa gtagagggct tcatcttcca ggtgatggat taaaaaaata catcccaagg 600
ctctctgtgg gaaagggtc angcagaaac tttccaaccc ctangtggtt gcttcagtga 660
tatgtcacaa ttaacaaaaa tatgcaggtt tcaagcaagt gagtnaagtc atatcaccta 720
nggtgcttgg tccanaaatc tgnacacaatc tttttttttt ttttggcatg cccagcngaa 780
ttgaaaagtc ncan 794

<210> 144
<211> 782
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 144

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ttcaagcaat tctcctggct cagcctcctg agtgctggga ctacaggcat gcaccaccac      180
tcccacctaa ttttgtatct ttgatagaga cggggcttct ccatgttggt caggctgttc      240
tcaaactcct gacctcaggt gatttgactg tcttagcctc ccacagtgtg gagcttatag      300
gcaggtgcca cgacacctgg ctggaatcat ttatttcaac atatctctgg gtccaacaac      360
atggtgatgc aactttcctg catgggccct cccacagaaa tactctaata catcttttca      420
ttcattatct tggatgatgt acttttctat tctgcttggg cactgccaaa aaaaaaaaaa      480
aagattgtga cagatttctg gaccaagcac ctaggtgata tgactttact cacttgcttg      540
aaacctgcat attttggtta ttgtgacata tcaactgaagc aaacacctag gggttggaaa      600
gtttctgcct gagcccttcc acagagagcc ttgggatgta tttttttaat ccatcacctg      660
ggagatgaaa cctctactt ttgctgcat tctgcccata gagaagattg tgacatattg      720
ctgggtcaag caaccagct ggtctgctgt ccttntggac tttgccaca agtgagttt      780
gn
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<210> 145

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 145

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cttttttttt ttggacatct gtttttcttc ttaggctttt aaacaatagt tattgctttt      180
atccctctca gattctaata actgagagcg atggggctat attgaatctc tgtatgcact      240
gagaactgag ctatgaagag gatcttatta aactgctggg ctgactttat ggattgacac      300
tgttccttcc ttttattgtg aaaaaaaaaa aaaaccctga aagtcttggg aaccccctaa      360
agtcttttgg gaatcctcaa aaagcatggg aagttaagta ttagctaca taaatgttgt      420
aagatcatat cttatgtata gaagtaataa gaccatttgg aattactgga ctaattgaat      480
agttaagggt tctattcggg acaataaaat gtattttgaa agtgctgcta actattgatg      540
ctgacagtgt ttcactccta tgagtgaccc aaacatatta taaatatgtg gtaaaggga      600
tgagacctgt ggggttgagc agaatgttgg actttttttt tnnnnnnnnn ntttttngc      660
tttctattng atngataacg atttcnggat tncctttaa nncncngang gtttggaac      720
tttgactgg attctggttc ccngaaacag gttcactggg nccggggga cacttttaan      780
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<210> 146

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(778)

<223> n = A,T,C or G

<400> 146

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agcatgtgtg ttttgcttct cagattcatt gtcactcacg ttgcataaag tcctcagttg      180
tttttaagta attgttttac tatggatata ttaaacatac agaataaaaa agggataaaa      240
catacaattt ggcaaaccct ctactgagcc tttaaaaata ttagaagggt ggtattaaac      300
caggtaactt acggatttgg aaaaaaaaaa aaaaagaaag cattgaatat ggctgggcgg      360
ttctctgggg atccttgggc agaccagtt tgccccgatt tctcactgta gttttcaaga      420
ataactgtag gaggcggtgg gagtgacgca tcctgagata agggagacga gccagaacag      480
cgcgggcact gttccagccc ccctagaaat ggggtgatct tcagtgttc agctcagttg      540
gtcatgttc acccagatg taaaagccta ggatcgagg cttccccagg gttcgtcagc      600
tgtggcaca tagggcccggt tgcaaataag attctattcc tgtcagacag tttcgtgagt      660
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ttgtggggga acactcacc tagcttctgn tgnctcttca tgcctgtgtg ttcctaataca 720
acttttttgn gtaacttggt gttttgaaag tgtcaccagc acacaatgga acctgtcn 778

<210> 147

<211> 784

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(784)

<223> n = A,T,C or G

<400> 147

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tttttttttg ggattgaatc aacatgcttt aataggaaaa gatgtatggg ctatatatgn 180
atcaat:ttgg ngaancctcg ntctaataaa ggggtctttt cttttctatg atacacacag 240
ncacgctgat aatatgcnaa tgaacatttt cctttatgnc tctncanata atgggttattg 300
gctgaggnaa attaaattcc caccangnt tgctgncagt attttaacac ccacattagt 360
atatgcntnc agggtcataa cccctctaaa tccatnatgc aaccttatta atctggcttg 420
ggantccngg ttaatgcttg gatttanttc ctgattacac tncntngaaa agtgagacat 480
ttgncattcc caactttggg aaaaccaact tatattcaac cntntnaatg aaggccatct 540
tgatggntc aacactaatt tttatgatgc aaatttatac acngattttt gtaaagggca 600
aagtttttaa agcgtattta acttgatggg ttctatcagc attaatnaaa tggncatgaa 660
taggcattaa aaacagttgc cagtgatnat ctgcatgaaa ggaaaaagaa ccctgcaaat 720
ggctattgaa nttggaaata ttggntttga natgtaagaa aatntttaga aagctcncnc 780
tgng 784

<210> 148

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(775)

<223> n = A,T,C or G

<400> 148

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agcgtggctg cggccgaggt acaaagcact gtttaaaacc agtccaagat acttaatcca 120
aactgtatca tgattcttca ttagaaatct agacaccact catggtgggt tcttacactt 180
taaaaagttg aggcattttc agtgtgagca ttctgaatat ctcttacata tcaaaaacaa 240
tacttccaac tcaatagcca tttgcagggt tctttttcct tcatgcagat tatcactggc 300
aactgttttt aatgactatt catgaccatt ttatttatgc tgatagaaaa catcaagtta 360
aatacgcttt taaaactttg tcttttacia aaatcagtg ataaatttgc atcataaaaa 420
ttagtggtga gaccatcaag atggccttca tttatatggg tgtatattag ttgggttttcc 480
cagagttggg aatggcagat gtctcacttt tctatgtagt gtaatcagga aataaatcca 540
agcactaaac aggaatccca agacagatta ataaggttgc atgatggatt ttaggggggt 600
atgaccctgg acgcatatac taatgtgggt gttaaaatac tgacagcaag ccctgggtgg 660
aattaattta cctcagacaa taaacattat ctggagagac ataaaggaaa atgttcattt 720
gcatattatc agcgtggctg ggtgtatcat agaaaaagaa aaagaacctt tttan 775

<210> 149

<211> 783

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 149

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agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacccgatta	aaccagagca	120
aaaactacct	tctgcaggtc	agggagctaa	tgacatggca	ttggccaaac	gttcccgcag	180
tcgaactgct	acagaatgtg	acgttcgtat	gagcaagtct	aagtcagaca	atcagatcag	240
tgacagagct	gctttggagg	ccaaagtga	ggatcttctc	acgctggcaa	aaaccaaaga	300
cgtagaaatt	ttacatttga	gaaatgaact	gagagacatg	cgtgcccagc	tgggcattaa	360
tgaggatcat	tctgagggtg	atgaaaaatc	tgagaaggaa	actattatgg	ctcaccagcc	420
gactgatgtg	gagtccactt	tattgcagtt	gcaggaacag	aatactgcca	tccgtgaaga	480
actcaaccag	ctgaaaaatg	aaaacagaat	gttaaaggac	aggttgaatg	cattgggctt	540
ttccctagag	cagagggttag	acaattctga	aaaactgttt	ggctatcagt	ccctgagccc	600
agaaatcacc	cctggtaacc	agagcgatgg	aggaggaact	ctgacttctt	cagtgggaang	660
ctctgcccct	ggctcantgg	gaggatctct	tgagtcagga	tgaaaataca	ctaattggacc	720
attagcacag	tacttcatgg	caatttagac	agtgagtga	atgaggtcta	ccagcccctt	780
ann						783

<210> 150

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 150

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cgagcggccg	cccgggcagg	tactgtgttg	gttctcttcc	atctggtgta	tccgttcagt	120
caggcaagcc	acggacactt	cactggcatt	cccgtgctc	cccttcggg	agcgtctat	180
gctggggatg	ccttccgact	ctgaggagga	tggtgcatcc	agcgcacat	cgctcgatgt	240
gaggggctgg	tagacctcac	tgactcact	gtctaaattg	tccatggagt	tactgtgctg	300
atggtccatt	agtgtatttt	cactctgact	caagagatcc	tccactgagc	caggggcaga	360
gccttccact	gaagaagtca	gagttcctcc	tccatcgctc	tggttaccag	gggtgatttc	420
tgggctcagg	gactgatagc	caaacagttt	ttcagaattg	tctaacctct	gctctaggga	480
aaagcccaat	gcattcaacc	tgtcctttta	cattctgttt	tcatttttca	gctggttgag	540
ttcttcacgg	atggcagtat	tctgttctct	caactgcaat	aaagtggact	ccacatcaag	600
tcggctgggt	agccataata	gtttccttct	cagatttttc	atcaccctca	gaatgatcct	660
cattaatgcc	cagctgggca	cgcagtctct	gcagttcatt	tctcaaagt	aaaatttcta	720
cgtcttttgt	ttttggcagc	gtgagaagat	ccttncttgg	nctcnaagcn	g	771

<210> 151

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(778)

<223> n = A,T,C or G

<400> 151

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tgtgctggaa	ttcgcccctt	gagcggccgc	ccgggcagg	actttttttt	ttcttttttt	120
acatctgatt	ttaatgcttc	gttaacttca	aaaggaactg	gtagagttca	gaaggtgagc	180
tgttgttttt	ctaaacctct	tcccaggaag	gagacattga	catttgaatt	tttgccacct	240
ttttcctcat	tagaaggaaa	gtagaaagcc	ttactgtagg	atttttaaaa	aaaaatccat	300
ctcaccat	attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	360
gtagaattta	gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggtcctac	420
ttttttcccc	acctctgccg	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	480

acctctgctt	cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	540
taagagtatg	ccaccacgcc	cagctacttt	ttgtatTTTT	agtagagaca	gggtttcatc	600
atgttggcca	ggatgggtctc	ttaaactcctg	ccctcaaagt	gatccaccag	agaggagatc	660
ctcggcctnc	ccaagtgctg	ggattatagg	catgagccac	cgtacccagc	ctactttcta	720
attaattaaa	aaaaaannnn	nnnnaaaaaa	aacttnccaa	atgagctgat	aaaaacng	778

<210> 152

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 152

gggcccntag	agctgctcga	cggccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggtcgcg	gccgaggtac	catgctgact	tcttggtatc	ttttaaggcc	taattttccc	120
ttccttgaga	ttactgtagt	gtgttccagc	taattttctat	ttggaaacga	gttggaacag	180
ctgaaaacta	ggtattattg	aaggcaaagt	agcctcacgt	cagtttttta	tcagctcatt	240
tgggaagttt	tttttttttt	tttttttttt	tttaattaat	tagaaagtag	gctgggtacg	300
gtggctcatg	cctataatcc	cagcacttgg	ggaggccgag	gatctcctct	ctggtggatc	360
acttgagggc	aggagttaag	agaccatcct	ggccaacatg	atgaaaccct	gtctctacta	420
aaaatacaaa	aagtagctgg	gcgtgggtggc	atactcttac	aatcccagct	acttgggagg	480
ctgaggcagg	agaatcactt	gaacctagga	agcagagggt	gcagtgggcc	aagatcacac	540
cactatactc	tagcctgggc	ggcagagggt	gggaaaaaag	taggaccctt	gtcctatatt	600
caggtttttc	tcacatatat	gaacccatct	aaattctacg	ttgttaaagg	tagcttaagt	660
taattagtct	atacttattt	aagaccaata	tggggtgaga	tggatttttt	tttaaaaaat	720
cctacagtaa	ggnntttctac	tttccttcta	atgaggaaaa	angnggcaaa	at	772

<210> 153

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 153

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tttttttttt	tttagttaaa	gaatgcttta	ttatacaaaa	tacacacaaa	ctctgaagca	180
ctaagaaatt	taaatatcta	tgtcacagca	aacagggtggc	aattcaacat	ccagggtcga	240
cagaatgctt	gaaggagact	gcaacagatt	ggattcccat	ggtggagagg	gcatnttcac	300
aggtgaaggg	gggcccagct	gaaacagctt	ttcaagctct	ctctcctcgt	caaggatcat	360
gagaggcact	ccactcaagg	ggagggtgcg	aatctggtgc	tcttcaggca	ggtcaaaaact	420
ctcaaagtct	agaggattga	agggaaagaa	tttttctatt	tctggatagg	catcatctga	480
ggcaggaaca	gagctttttg	ctttaacagt	cttctcagtc	atcttttttg	cagaaaagct	540
tggctgtttt	tgtttgaggg	gtcccttggg	ctttacagac	ttttctgtag	ctctgttgac	600
agttcccaaa	gcctttctag	tagcttttagg	taaggctggg	ggggcatcga	acgttttgcc	660
aaaacgtggg	ggtgaaactt	gagatctccc	atctaangct	ttgattgaan	gtccagaccc	720
cagcttcagc	ccatccttag	caaccacacn	ggtgcctggg	tctncatttt	ccttatnang	780

<210> 154

<211> 770

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 154

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gagcggccgc	ccgggcaggt	acgcggggac	cgcgccctca	gatgaatgcg	gctgttaaga	120
cctgcaataa	tccagaatgg	ctactctgat	ctatgttgat	aaggaaaatg	gagaaccagg	180
caccctgtgtg	gttgctaagg	atgggctgaa	gctggggctc	ggaccttcaa	tcaaagcctt	240
agatgggaga	tctcaagttt	caacaccacg	ttttggcaaa	acgttcgatg	ccccaccagc	300
cttacctaaa	gctactagaa	aggctttggg	aactgtcaac	agagctacag	aaaagtctgt	360
aaagaccaag	ggacccctca	aacaaaaaca	gccaaagctt	tctgccaaaa	agatgactga	420
gaagactgtt	aaagcaaaaa	gctctgttcc	tgccctcagat	gatgcctatc	cagaaataga	480
aaaattcttt	cccttcaatc	ctctagactt	tgagagtgtt	gacctgcctg	aagagcacca	540
gattgcgcac	ctccccttga	gtggagtgcc	tctcatgatc	cttgacgagg	agagagagct	600
tgaaaagctg	tttcagctgg	gcccccttc	acctgtgaag	atgccctctt	caccatggga	660
atccaatctg	gtgcagtctc	ttcaagcatt	ctgtcgaccc	tggatgttga	attgccacct	720
gtttctgtg	acatagatat	ttaaatttct	tagtgcttca	gagtttgngg		770

<210> 155
<211> 767
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 155

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gtgctggaat	tcgcccttag	cggtggtcgc	gccgaggtag	gcgggcccgc	tgataaactg	120
ccctgggaca	cagcagcggg	aagccgcctg	cagactgaac	ctcactgacc	caggtggaaa	180
tcgttaggtc	atttactgct	aagcagccag	atgaactctc	cctgcaggtg	gctgacgtcg	240
tcctcatcta	tcaacgtgtc	agcgatggct	ggtatgaggg	ggaacgacta	cgagatggag	300
aaagaggctg	gtttcctatg	gaatgtgcca	aggagataac	atgtcaagct	acaattgata	360
agaatgtgga	gagaatggga	cgcttgctag	gactggagac	caacgtgtag	tctctcagat	420
ggtcttttgt	tactgcaaga	tttgacagac	acttaccggg	ctggttggtt	ctgggctagt	480
tttattgnta	attttgtcac	agcctattta	attaaaagaa	cgaaaacact	tgctttaag	540
cttgccaggt	tgttctgctc	tctcatgaga	agagcttgga	tacagtgagt	ttgcacagct	600
cagtttttac	ctaaccacac	acttgacagc	ctnctgaggt	acctgcccgg	gcggccgctc	660
gaaanggcga	attctgcaga	tatccatcac	acttggcggn	cgctcgaaca	tgcatctaga	720
nggcccaatt	cgncctatag	tgagtcgtat	tacaattcac	tggnccgc		767

<210> 156
<211> 827
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(827)
<223> n = A,T,C or G

<400> 156

attgggcccc	tagatgcatg	ctcgacggcc	gccagtgtga	tgatatactg	cagaattcgc	60
cctttcgagc	ggccgcccgg	gcaggtagct	caggaggtct	gcaagtgtgt	ggttaggtaa	120
aaactgagct	gtgcaaacct	actgtatcca	agctcttctc	atgagagagc	agaacaacct	180
ggcaagctta	aaggcaagtg	ttttcggtct	tttaattaaa	taggctgtga	caaaattaac	240
aataaaacta	gcccagaacc	aaccagcccc	gtaagtgtcg	tgcaaatctt	gcagtaacaa	300
aagaccatct	gagagactac	acgttggtct	ccagtcctag	caagcgtccc	attctctcca	360
cattcttatc	aattgtagct	tgacatgtta	tctccttggc	acattccata	ggaaaccagc	420

ctctttctcc	atctcgtagt	cgttccccct	cataccagcc	attggctgac	acnttgattg	480
gatgaaggcc	ancttanncc	nactngcagg	gagaagtcaa	tttgnttgnt	taaccnntna	540
atggancctt	accnanttnc	acctgggggc	aagtgagggt	tcaagtctgc	angcggcttc	600
ccgctgctgt	ggtcccaagg	gcaagttatn	cagcggggcc	cgcgttacct	tgggccgggg	660
accaacgcct	taangggccg	aaattttcaa	gcacacttgg	ccggcccgtt	acctagtggg	720
atnccgaact	tcgggtaccc	aaagccttgg	gcgttaatca	atgggtcaat	aggcttggtt	780
tcctggtgtg	naaaattggt	aatccggttc	acaanttccc	cacaaca		827

<210> 157

<211> 818

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(818)

<223> n = A,T,C or G

<400> 157

aacactatga	cctgatacgc	cancttggtg	ccgntctcga	tccttagtaa	cggccgcccag	60
tgtgctggaa	ttcgcccttt	cgagcggccg	ccgggcaggt	acataatctg	gaaatttatg	120
ttacaggtat	gcatatttgt	atatgaaaaa	tattaactga	gaaattactg	agcttcttag	180
caaaaaatat	aattatttca	gagatatgat	acagtttaat	atctgccttc	ctcaaaaagt	240
cagaaaaata	aaagttttaa	attgcatata	ttttcatttc	ttacatatgt	cagaacactc	300
agaattttta	ataaaatggt	ttaaaacata	attataagtt	gttactttta	tttctatggt	360
tagtggaaac	cacaggggtc	tgtatctgat	taaatggagg	atatattagg	agaatttttt	420
agaagaatga	cacatgtgac	ataccaccat	atttgcaaga	aaatataact	tgatagtaga	480
gtaagttagc	tgctttatat	gatgaattaa	aggcactagc	tcttagaaaa	aaaaggatta	540
aaatgctgac	ttcagtaata	atgtaaggag	ctctgctctt	taacatttcc	taattaggta	600
taaactatga	tggaagggaa	aggtggaatg	gaagtntcta	cntnttacca	ttggctttcn	660
ttcatgaaat	tggcagnnag	cctnccatth	cnnnaggntc	ttaatnaaaa	antttttccc	720
aacttttntc	tttcnaaaaa	nttnttnncc	nnatngnnaa	ctggnggtna	aaacccggct	780
tttttggggg	gaaancctac	ctggntnggg	naaaaant			818

<210> 158

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 158

ntgggcccnt	nnagcatgct	cgacggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
ttagcgtggt	cgcgggccgag	gtacttcaac	caccctcctc	acaaaactct	atacccttgt	120
catattaaaa	ttgtatgtta	tgccaggcctt	ccctaataca	acaaaatctc	tgaataaaac	180
ctattaaata	tacaatttct	atcaacatgc	ctgccacaca	tgcttaataa	ttgcttagtg	240
aatacaagat	taatgcatga	gtgcctaagt	tacttcatct	agtataacaa	atgacaatat	300
ctcatttggt	ttccgaagta	tccttattcc	attcaagctc	tgaagaaagt	attaatgata	360
ttcgtcctta	agtaattttt	tctgcattca	aatctcacca	ttcaaagat	tttccaacag	420
tagtttcccc	aaaagcagtt	tacacagtta	catttggtat	aatttttgaa	agaaaagttg	480
ggaaaatttt	attaagactc	tgaatgtagc	ttactgccaa	ttcatgaaga	aagcaatgta	540
atacgtagat	acttcattcc	acctttccct	tcacatagat	ttataactaa	ttaggaaatg	600
ttaaagagca	gagctcctta	cattattact	gaagtcagca	tttatacttt	tttttctaag	660
agctagtgcc	tttaattcat	catataaagc	agctaactta	ctctactatc	aagttatatt	720
ttcttgcaaa	tatggtggta	tgtcacatgt	gtcattcttc	taaaaaatc	tg	772

<210> 159

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 159

ttgggnaaaa	ttttaaaaccg	gcccccccaa	angncccttt	ttgggggntt	aaaccccccg	60
gnaangcccc	tttccggggg	gggaaattcc	ccccaaccct	ttaaagggtt	aaaaaccg	120
gggccnccgg	gcccccaaa	ggtttgggtt	tgggcccttt	ggggggaaaa	aattttttcc	180
gggccccccc	ntttttaaaag	gccgggttgg	ggggtttccc	gggcccgggg	gccccccgga	240
aaagggggtt	aaccccttn	aatttttttn	gggtttttcc	cccccaaatn	gggtttccaa	300
tttttttttt	tttaaaaaac	ccaaaanggg	aaaaaaagg	gttggcccaa	aatttaagg	360
cctttctttc	aaaagggtt	cctttgggaa	aaaaaacct	tgggttgggg	gaaaagggtt	420
ncccaaaaat	ttaaacctgg	gaaaaccttc	tttgggnaac	ccactttaaa	aatttaaaant	480
taaanttaaa	tttaaattta	aanttaagga	atgggnttgg	aaaaaaaaag	gaatattccn	540
ttaatgtggc	cttaattttt	taatttgntn	atttgactgg	tnatgnnttt	acttttnaaa	600
aacntnctnn	ccaaaaacca	attttacntg	gncnngtggg	atttaccntn	ttcnattacc	660
ngggagttaa	cccaactnga	acntttngga	gggnccagtc	ctccataggg	acctccntca	720
ntntgatnc	caactgcaag	ttcagggaaa	ttctcacatc	ccccttgggc	natatatctc	780
tttaaaagcn	cctcacagca	ctcactgaan	tctattatat	tatagatang	gtntattatg	840
ggaaaanggt	nacanntcaa	natnncccaa	cgcggggana	cacanngngc	agngcccgat	900
gatnttcna	nacacagant	ttggtgttct	ctggagncgt	ttccccnta	gnaaaatgtt	960
gacacntgga	cagagttttt	acccccaggg	gaacgtnaat	caatctttgg	aagtttcaaa	1020
tcag						1024

<210> 160

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 160

gggcctctnn	agcatgctcg	agcgcccgcc	agtgtgatgg	atatctgcag	aattcgccct	60
ttcgagcggc	cgccccggga	ggtactgtaa	gttattttct	tccttatctc	ccaatgacac	120
tgttttctac	atgaaaaata	ccattttggc	tttatcaaca	tgttattaat	tcataatatg	180
agagatctat	cagcactatt	tgtaaaaaata	ttcaattaaa	aaaattaaga	tgatttatag	240
ttgtgtggta	aagaatttga	ccttacccaa	aggagggtcag	gcttttgccc	tcagccttaa	300
ggagataatc	ttgtcatacc	caataaaagt	gttattttta	agtgaggctg	actacacctg	360
ataatccagc	ttgagggaca	gttatgccag	tttgaccaac	tagatgattt	agggagcttt	420
ctctcccaac	ttcaaagctg	tgatgaatca	aacaggtaat	taatcgatca	tgcttatgta	480
atgaagcctt	gattgaaact	tcaaagattg	attgacgttc	cttgggttgg	aatactctgt	540
catgtgtcaa	ttctagaagg	gtaatacgtc	ctgaggataa	cagaagctct	gtgtttggaa	600
tcatectgga	ctctgcactt	tgnttctcct	gctttggctg	attttgatct	gtaaccttta	660
cctataataa	accataacta	taatataata	gatttcagtg	agtgtgtga	ngctttctag	720
tgattttattg	aacctaaggg	tggatgtgag	aatttnctga	acttgcagtt	g	771

<210> 161

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 161

acncttgacc	tgatcgccag	cttggtaccg	actcggaccc	tagtaacggc	cgccagtgtg	60
ctggaattcg	cccttagcgt	ggtcgcggcc	cgaggtacag	aatttattat	gaaatagctt	120
aatggcaagt	ggtaatttag	aagaattaag	ttatcagata	ggagatatat	taaaatattt	180
aaaaattgga	tatattcttg	aagccctttt	acacaagtaa	tttctataat	ttgattgtaa	240
tgaaagtata	atataccttg	ttactattat	cagattaatt	tttgaaagta	gaattcctta	300
atcaagccaa	ggttatgctg	ctttataaga	aattaatcag	gtagttaaac	actagagctc	360
attagccaac	ctgtatgtag	cacaaaataa	tcattctctga	taaataccta	taaatatatt	420
ttattcatac	ttttaaatat	tttacaattc	aaataaaaac	cttatatgta	gacaatctgg	480
gctaaatttc	catgtatggt	ttgaaaaata	atgttagcat	gaatagattc	atatttaa	540
atgattttta	atactcttaa	tagaggagac	ataagaaata	tttacataaa	agctaagtag	600
catgatacag	ctcatgggta	ttttcctcat	aggaaaacaa	ttacttgatt	tttttttgca	660
taggattaaa	gactgagtat	cttttctaca	ttcttttaac	tttctaangg	gcacttctca	720
aaacacagac	caggtagtaa	atctncactg	ntctaagggtc	tcacccct	t	771

<210> 162

<211> 768

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(768)

<223> n = A,T,C or G

<400> 162

gggcccctnn	agctgctcgn	cgggcgccag	tgtgatggat	atctgcagaa	ttcgccctta	60
gcggccgccc	gggcaggtac	tacaaaaaca	gaataatttt	gaagtttttag	aataaatgta	120
atataatttac	tataattcta	aatgttttaa	tgcttttcta	aaaatgcaaa	actatgatgt	180
ttagttgctt	tattttacct	ctatgtgatt	atttttctta	attgttattt	tttataatca	240
ttatttttct	gaaccattct	tctggcctca	gaagtaggac	tgaattctac	tattgctagg	300
tgtgagaaag	tggtgggtgag	aaccttagag	cagtggagat	ttactacctg	gtctgtgttt	360
tgagaagtgc	cccttagaaa	gttaaaaagaa	tgtagaaaag	atactcagtc	ttaatcctat	420
gcaaaaaaaa	atcaagtaat	tgttttccta	tgaggaaaat	aaccatgagc	tgtatcatgc	480
tacttagctt	ttatgtaaat	atttcttatg	tctcctctat	taagagtatt	taaaatcata	540
tttaaatatg	aatctattca	tgctaacatt	atttttcaaa	acatacatgg	aaatttagcc	600
cagattgtct	acataataag	tttttatatt	aattgtaaaa	tatttaaaag	tatgaataaa	660
atataatttat	aggtatttat	cagagatgat	tattttgtgc	tacatacagg	ttgggcta	720
gagctctagt	ggtaaaactac	ctgataattt	cttataaagc	agcatacc		768

<210> 163

<211> 776

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(776)

<223> n = A,T,C or G

<400> 163

nantatgacc	tgatacgcca	acttggtacc	gactcggatc	cactagtaac	ggccgcccagt	60
gtgctggaat	tcgcccttag	cgtggtcgcg	gccgaggtac	tcttccgcag	aggggaaggct	120
gtagaagtct	ttgcaagctt	catacagaga	aatacaaaaag	gtgtgatgcc	attaactggt	180
ccttttctaaa	gcattaggaa	tttagtgaaa	ctctcaaaca	caaaactgaa	aagccatttg	240
aacaaatctc	atatacttgt	agataagctt	ttttttattt	aaagcataca	aattcaaattc	300
tttcaagcag	aaaattcagt	caagtgagat	ccattgggtg	tttgagttca	aagtcagtga	360
gcaaatggaa	atcattgcgg	catctctctc	atttccctag	tggacattag	accactcaaa	420
atgtgtcaca	taattttacag	ccccttggtg	gtaattgaat	atacacgttg	agagtgcact	480
ggcagaacac	ttaagaaaga	ttgaatgcag	gaggaccagc	ttacgttatt	tttggtctca	540
ctctgggttt	tgctttta	gttttttctt	gagattaatt	tcaattgggt	tgttccatcc	600
tattcaaaca	aatgctttga	gagaagagat	gaacagcagc	atcaaataaa	atttgtgat	660

ttagtttnag agacatcang tgttgtaate aaataagaca gaanggccaa gttaaaatct 720
gtgattngca taaatgaatt taactgttag aatagcanaa ttgagaggtg gattan 776

<210> 164
<211> 773
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 164
cgggcctcta gatgctgctc gacggccgcc atgtgatgga tatctgcaga attcgccctt 60
tcgagcgccg cccgggcagg tacacagtgg ataccacata ctgctctga ggaagaagga 120
ggaggagaaa gaggagaagg aaggaaattt tcaaatgaca atttctatca ggactcattt 180
tcctattata agttcagaat acttggacgt ctttataaaa tcaagttgaa atctctacta 240
ttttgatctg tattctctta aatattaaag gttataccta gggagattcc atgttgactg 300
gcaaacaaag cataccattt taagaataac tcttcataaa atatgtgtct aagaattaaa 360
agtgtctagt aacagataca caaaagagag atttagaata attaataatt aaagacagat 420
aattttaatg ttccacactt ttaactacaa aattctttgt ttccctaaat attagcaaaa 480
atgttatata ttaaaataaa tcttgaaaat ctccacctac atttagataa tagttcaaaa 540
gtcatattgc taatctacct ctcaattctg ctattcttac agcttaaatt catttatggc 600
aaatcacaga ttttactttg tcttctgtc ttatttgatt acaacacctg atgtctctga 660
aactaaatat ccaatttatt tgatgctgct gttcatctct tctctcaaag cattngtttg 720
aatangatg aacaacccaa ttgaaattaa tctcaaggaa aaacattaaa ant 773

<210> 165
<211> 783
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 165
tnnnnnacac tatgacctga ttacgccanc ttggtaccga ctgggatcca ctagtaacgg 60
ccgccagtgt gctggaattc gcccttagcg tggctcgggc cgaggtacag taggaaaata 120
agaataacaa cgggcaaaat ctttttagaa catttatgct ttatctgttt tagcttctaa 180
aacaatcctg aaggatgaat aattatcatg agtatagcag aatttaattt tccctgttgc 240
tccaaaattt taatgaaaac ttacgggtg agagaaatag gtaaataaaa aaacttccta 300
aaattctaaa gacaattgtt gaataaaatt taagtgaatg agtttgtgct tcatatttaa 360
cttttaactt tccaataggc ttatttaaatt ggaaaactga aatttacaaa gtcttagagt 420
agaagcattt ttatcctggc tagggattct ctaagagAAC cagtagcacc aagatgcact 480
ggaacagtgc aacgagagag ttcatgcctt agggtttaga agcatacaag caaagggaat 540
ggtgcccact tcttactaga aaaatttcac aggttgaggc ctgggaggag gagcctggga 600
tgacagtaga agtgtgcagg aagcactaag tctagcctgt acctgcccgg gcggccgctc 660
gaaaggcgaa ttctgcagat atncatcaca ctggccggcc gntcgagcat gcatntagag 720
ggcccaattc gcctatagtg ancgtattac aattcactgg ccgcgtttta caacgtnnng 780
cnn 783

<210> 166
<211> 775
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(775)

<223> n = A,T,C or G

<400> 166

attgggcctc	tnnagcatgc	tcgagcggcc	gccagtgtga	tggatatctg	cagaattcgc	60
ccttcgagcg	gccgcccggg	caggtacagg	ctagacttag	tgcttcctgc	acacttctac	120
tgatcatcca	ggctcctccg	cccagactcc	agcctgtgaa	atctttctag	taagaagtgg	180
gcaccattcc	ctttgcttgt	atgcttctaa	accctaaggc	atgaactctc	tcgttgccact	240
gttccagtgc	atcttggtgc	tactggttct	cttagagaat	ccctagccag	gataaaaatg	300
cttctactct	aagactttgt	aaatttcagt	tttccattta	ataaagccta	ttggaaagt	360
aaaagttaaa	tatgaagcac	aaactcattc	acttaaattt	tattcaacaa	ttgtcttttag	420
aatttttagga	agttttttta	tttacctatt	tctctcaacc	gtaaagtgtt	cattaaaatt	480
ttggagcaac	agggaaaatt	aaattctgct	atactcatga	taattattca	tccttcagga	540
ttgtttttaga	agctaaaaca	gataaagcat	aaatgttcta	aaaagatttt	gcccgttggt	600
attcttattt	tctactgna	cctcggccgc	gaccacgcta	agggcggaatt	ccagcacact	660
ggcggccgtt	actagtggat	ccgagctcgg	taccaanctt	ggcgtaatca	tggtcatagc	720
tggttcctgt	gtgaaantgt	atccgntcac	aattcacaca	acatacganc	cggag	775

<210> 167

<211> 797

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(797)

<223> n = A,T,C or G

<400> 167

ttgnaacnat	tntgacctga	ttacgccaac	ttggtaccga	gctcggatcc	actagtaacg	60
gccgccagtg	tgctggaatt	cgcccttagc	gtggtcgcgg	ccgaggtagt	ttcagaaggt	120
aaatcagtag	atcacccatg	tgtatctgca	ccttctcaac	tgagagaaga	accacagt	180
aaacctgctt	ttatcatttt	caagatgggt	atttgtagaa	ggcgaggaac	caattatgct	240
tgtattcata	agtattactc	taaatgtttt	gtttttgtaa	ttctgactaa	gaccttttaa	300
ccatgggttag	ttgctagtac	ccttccttgt	ccgaaggagc	tgaccagtat	tgatgagaga	360
gtccaggcag	ctcctgaagt	tcagctggta	gtttgttctc	tgaacatttg	gtctcttgaa	420
ggcacagtat	atctgggggt	tcttccttta	cccaatctaa	tcctttcttc	ttaatccagg	480
ctcgaagccc	atncacattc	caagagcaga	tcttgagtgt	ggcaggtttg	ccactgggtg	540
aggttttctg	atctgggggg	tcctcataca	gggctggggc	cctntcctgc	tgccctcttg	600
tcattttctt	tgcgggccgt	cttactcttc	ttggcctctg	gcttctgtcc	tgagctcatc	660
cccgtctttc	ggccaccngt	tccccctttt	tacacgcctt	cggcatttcc	cgttaccgaa	720
cgcccttttg	gcagctgtac	ctgccccngg	cggccgttcg	aaaaggccna	attcttgcag	780
aatttccatc	ncaccnn					797

<210> 168

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 168

acantatgac	ctgatacgcc	aacttgggtac	cgactcggat	ccactagtaa	cggccgcccag	60
tgtgctggaa	ttcgccctta	gcgtgggtcgc	ggccgaggta	ctccggtcgg	tgctcagcagc	120
acgcggcatt	gaacattgca	atgtggagcc	caaaccacag	aaaatggggg	gaaattggcc	180
aactttctat	taacttatgt	tggcaatttt	gccaccaaca	gtaagctggc	ccttctaata	240
aaagaaaatt	gaaagggttc	tcactaaacg	gaattaagta	gtggagtcaa	gagactccca	300
ggcctcagcg	tacctgcccg	ggcggccgct	cgaaagggcg	aattctgcag	atatccatca	360
cactggcggc	cgctcgagca	tgcactctaga	gggcccatt	cgccctatag	tgagtcgtat	420
tacaattcac	tggccgtcgt	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	480

cttaatcgcc	ttgcagcaca	tccccctttc	gccagctggc	gtaatagcga	agaggcccgc	540
accgatcgcc	cttcccaaca	gttgcgcagc	ctgaatggcg	aatggacgcg	ccctgtaacg	600
gcgcattaag	cgcggcgggt	gtggtgggta	cgcgacgcgt	gacccgtaca	cttgccagcg	660
ccctancgcc	cgctnctttc	gctttcttcc	ctttctttct	tngcacgttc	gccggctttt	720
cccgtcaagc	tctaaatcgg	gggctccttt	tanggttccg	atttantgct	ttacnagnacn	780

<210> 169
<211> 771
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 169						
gggccnctng	agcatgctcg	acggcccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tacgctgagg	cctgggagtc	tcttgactcc	actacttaat	120
tcggtttagt	gagaaacctt	tcaattttct	tttattagaa	gggccagctt	actgttggtg	180
gcaaaattgc	caacataagt	taatagaaag	ttggccaatt	tcacccatt	ttctgtggtt	240
tgggctccac	attgcaatgt	tcaatgccgc	gtgctgctga	caccgaccgg	agtacctcgg	300
ccgcgaccac	gctaagggcg	aattccagca	cactggcggc	cgttactagt	ggatccgagc	360
tcggtacca	gcttggcgta	atcatgggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	420
ctcacaattc	cacacaacat	acgagccgga	agcataaagt	gtaaagcctg	gggtgcctaa	480
tgagtgaagt	aactcacatt	aattgcgttg	cgctcactgc	ccgctttcca	gtcgggaaac	540
ctgtcgtgcc	agctgcatta	atgaatcggc	caacgcgcgg	ggagaggcgg	tttgcgtatt	600
gggcgtcttt	ccgcttntct	gctcactgac	tcgctgcgct	cggctcgctc	gctgcggcga	660
gcggtatcaa	gctactcaaa	ggcngtaata	ccgntatcca	cagaatcagg	ggataacgca	720
ggaaagaaca	ttgtgagcaa	aaggcancaa	aagggcagga	accgtaaaaa	n	771

<210> 170
<211> 777
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 170						
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gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtag	acagaatagc	tgagcagttc	120
acttcaggga	tcaggctcatc	tctgctcctc	ctagtctcac	catgttcttg	caataaaaaa	180
cacatattat	atcctgggtt	tctctatcct	tgcattacta	aggtgactgt	ctctctttat	240
acatccttgt	atggttctcc	cagtattagc	aagattgtat	atctgtaaag	aatgtccagt	300
tttgtaaata	tttccctgcc	tttttttttc	tttttttaca	tctgatttta	atgcttcggt	360
aacttcaaaa	ggaactggta	gagttcagaa	ggtagagctgt	tgtttttcta	aacctcttcc	420
caggaagggg	acattgacac	ttgaattttt	gtcacctttt	tcctcattag	aaggaaagta	480
gaaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	accccatatt	ggtcttaaat	540
aagtatagac	taattaacct	aagctacctt	taacaacgta	gaatttagat	gggttcatat	600
atgtgagaaa	aacctgaata	taggacaggg	gtcctacttt	tttccccacc	tctgtcgccc	660
aggctagagt	atagtgggtg	gatcttgccc	cactgnaacc	tctgcttctt	anggtcaagt	720
gattcttctt	gcctcacctt	ccaagtagct	gggattggaa	gaatatgccn	ccccccg	777

<210> 171
<211> 782
<212> DNA
<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 171
nnngggcccnt agagcatgct cgacggccgc cagtgtgatg gatatctgca gaattcgccc 60
tttcgagcgg ccgcccgggc aggtactttt tttttttttt tttttttttt ttttaattaat 120
tagaaagtag gctgggcacg gtggctcatg cctataatcc cagcacttgg ggaggccgag 180
gatctcctct ctggtggatc acttgagggc aggagttaag agaccatcct ggccaacatg 240
atgaaaccct gtctctacta aaaatacaaa aagtagctgg gcgtgggtggc atactcttac 300
aatcccagct acttgggagg ctgaggcagg agaatacactt gaacctagga agcagagggtt 360
gcagtgggccc aagatcacac cactatactc tagcctgggc gacagagggtg gggaaaaaag 420
taggaccctt gtcctatatt cagggtttttc tcacatatat gaacccatct aaattctacg 480
ttgttaaagg tagcttaggt taattagtct atacttattt aagaccaata tgggggtgaga 540
tggatttttt tttaaaaatc ctacagtaag gcttttctact ttccttctaa tgaggaaaaa 600
ggtgacaaaa attcaagtgt caatgtcccc ttcctgggaa gaggtttaga aaaacaacag 660
ctcaccttct gaactctacc agttcctttt tgaaagttaa ccgaagcatt aaaatcagat 720
gttaaaaaag aaaaaaaaaa ggcngggaaa atatttataa aactgggaca ttctttacag 780
an 782

<210> 172
<211> 773
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 172
canttgacct gatacgccaa cttggtaccg actcggacca ctagtaacgg ccgccagtgt 60
gctggaattc gccctttcga gcggccgccc gggcaggtag catcctgtgg ctctttaagg 120
aggcttctct ctttaattct ccatgaggca tccagggtgg tctgggctat gggagaagacc 180
cttcaacttg ggagtagaca ggtgctccaa ttcatagtgc ccattctcag aggccttgtg 240
tgtgagtttc tccttcatgc cttccttctg gctcttcttg tgcctcataa tctgctggag 300
ctggtgcccc gcatagtctg gcttgggtgg cagcgggcca gccggcacag ctacaccaag 360
gacatctgac accatgtagg ggccgagcca gccaccaag ggagtgtctc cggggctgta 420
gtgggtctgt ttgtggtaga agagaagtcc atctacctca aaagggaaat ccatagatag 480
cacatcacac aggctttcgg gaggtgcaagg gaagttcttt agccccacaa atttaaaagg 540
attaagcttg gttttctctc ccagtccttc ttcttctggt aactttgaat gcatccagta 600
gaatcggaat tcaagtctgg caatcataaa aagggtgtcc ccgccagcac atcacattca 660
gaacgtagta ggtctgggtt acctcattgt aaatgcaatc tagaatggtg taagcttttg 720
ctgntgaagt ttccttctgc ctctggcaga atgaagaaan ctgttgacac aac 773

<210> 173
<211> 772
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 173
ntgggcctct nnagctgctc gacggccgcc atgtgatgga tatctgcaga attcgccctt 60
agcgtggctc cggccgaggt acagttcctt ggagcagagt gaggccgcc ggagggttact 120
ggaactgcag aaatccaagc ggctggatta tgtgaaccat gccagaagac tggctgaaga 180
tgactggaca gggatggaga gtgaggaaga aaaataagaa agatgatgaa gaaatggaca 240
ttgacactgt caagaagtta ccaaaacact atgctaatac attgatgctt tctgagtggg 300
taattgacgt tccttcagat ttggggcagg aatggattgt ggctgtgtgc cctgttgga 360

```
aaagagccct tatcgtggcc tccaggggtt ctaccagtgc ctacaccaag agtggctact 420
gtgtcaacag gttttcttca cttctgccag gaggcaacag gcgaaactca acagcaaaag 480
actacaccat tctagattgc atttacaatg aggtaaacca gacctactac gttctggatg 540
tgatgtgctg gcggggacac cctttttatg attgccagac tgatttccga ttctactgga 600
tgcattcaaa gttaccagaa gaagaaggac tgggagagaa aaccaagctt aatcctttta 660
aatttgtggg gctaaagaac ttcccttgca ctcccgaaag cctgtgtgat gtgctatcta 720
tggatttcct tttgaggtag atggacttct cttctaccac aaacagaccc ac 772
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<210> 174

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 174

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acactatgac ctgatacgcc aagcttggtt ccgagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct tagcgtgggtc gcggccgagg taaaaaata catttttcca 120
catacaaaag agagaaaaaa acaaagacat gtggcggggtg gcgaggggag gcccaatccc 180
aacaccctac aaggttccat ggaatggaga aggaacaaaa aaatcccca ttattttggg 240
gtaagatgtg cccagaaaaa ggtgaaatct atgcaataaa acccagggtt tcttcaaate 300
tagcatctag gatttctatc agagtttcaa ataatcagaa tttctatcag aatttctacc 360
ctgaggtgac acctactaac tgtaggttct ttcattaaaa atgaagacat ctttcaccag 420
aatgtatcaa gctataaaac tggcttcaga gcctacactt agccagagtg gaaaaaaaat 480
agtgcattat ttcgacagca attttgaatt gatgcttgag gtctcaatcc accagcacc 540
agatatcatg ttacctccct cagttgaata caagttaaaa tgatgatctt atcgagatct 600
caatagagca cagtgcctt catgtttcgg gtaagaagggt gggaggagga atgaagccgg 660
gtattacacc cagcccaatg acagcttaag ccttaacatg cnggcattct acaatgacca 720
taaacaaggg angggccaag canggctngc gatcattact ttgcgcacag aatgccatgt 780
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<210> 175

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 175

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gggcctctag agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccctt 60
tcgagcggcc gccgggcagg tactaaaaca gctttgctta tggtggccag gggaaaacat 120
ggcattctgt gcgcaaagct aatgatcgcc agccctgcct tggccctcc cttgtttatg 180
gtcattgtaa gatgcccgca tgttaaggct taagctgtca ctgggctggg tgtaataccc 240
gcttcattcc tctcccacc ctcttaccgg aaacatgaag ggcactgtgc tctattgaga 300
tctcgataag atcatcattt taacttgtat tcaactgagg gaggtaacat gatattctgg 360
tgctgggtgga ttgagacctc aagcatcaat tcaaaattgc tgcgaaaaat atgcactatt 420
ttttttccac tctggctaag tgtaggctct gaagccagtt ttatagcttg atacattctg 480
gtgaaagatg tcttcatttt taatgaaaga acctacagtt agtaggtgtc acctcagggt 540
agaaattctg atagaaattc tgattatttg aaactctgat agaaatccta gatgctagat 600
ttgaagaaaa cctgggtttt attgcataga ttacacctt tctggggcac atcttacc 660
aaaataattg gggatttttt tgnctcttct ccattccatg gaaccttgta ggggtgtttg 720
gattgggcct tccctngcca cccgccacat gtcttttggtt ttttctctct t 771
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<210> 176

<211> 773

<212> DNA

<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 176
atngggcctc tagagcatgc tcgagcggcc gccatgtgat ggatatctgc agaattcgcc 60
cttagcgtgg tcgcggccga ggtactcatg tatttttttt tttttccaga tctctttccc 120
caagttgcta ttgtaagagt attctgctgc gtgtggatgc agttatacac attaaagcag 180
atctggagtc tgaagtagct ataaagcagc tataaaacag aaatacatgc atagctgcag 240
aaaccatgat aggtagagga cttttctttt ggttttgttt tgttttgttt tgttttgttt 300
ttggttttac agagaagaga tttttattac aaagaaaaaa attccagtga attgtgcaga 360
aatgctgggt tttacaccat cctaaagaaa aactttacaa ggggtgtttg gagtagaaaa 420
aaggttataa agttggaatc tttaaattgta aaattaacca ttgagtgtca aagttctaaa 480
agcagaactc attttgtgca atgaacataa ggaaagacta ctgtataggt tttttttttc 540
tcctttttaa tgaagaaaag ctttgcttaa gggttgcata cttttattgg agtaaatctg 600
aatgatccta ctcttttgga gtaaaactag tgcttaccag tttccaattg tatttagctt 660
ctggttggaa tttgaaaaaa aaagaaaaaa agaaaaagaa aacctaaata aaataggtga 720
aagttccctg actattcagg tgaatacnca aaaanaaaan nnnnnnaann nnt 773

<210> 177
<211> 772
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 177
acattngacc tgatacgcca gcttgggtacc gagctcggat ccactagtaa cggccgcccag 60
tgtgctggaa ttcgccctta gcgtgggtcgc ggccgaggta cagtaggaaa ataagaataa 120
caacgggcaa aatcttttta gaacatttat gctttatctg ttttagcttc taaaacaatc 180
ctgaaggatg aataattatc atgagtatag cagaatttaa ttttcctgtg tgctccaaaa 240
ttttaatgaa aactttacgg ttgagagaaa taggtaaata aaaaaacttc ctaaaattct 300
aaagacaatt gttgaataaa atttaagtga atgagtttgt gcttcatatt taacttttaa 360
ctttccaata ggctttatta aatggaaaac tgaaatttac aaagtcttag agtagaagca 420
tttttatect ggctagggat tctctaagag aaccagtagc accaagatgc actggaacag 480
tgcaacgaga gagttcatgc cttanggttt agaagcatac aagcaaaggg aatggtgccc 540
acttcttact agaaaaattt cacaggctgg agtctgggag gaggagcctg ggatgacagt 600
agaagtgtgc aggaagcact aagtctagcc tgtacctgcc cgggcggncc ctcgaagggc 660
gaattctgca gatatccatc aactggcggc ccgctcgagc atgctctana gggcccaatt 720
cgccctatag tgagtcggat tacanttnaa tggccgncgt tttacaacgt cc 772

<210> 178
<211> 770
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 178
attgggcccc tnnagcatgc tcgnccggcc gccagtgtga tggatatctg cagaattcgc 60
ccttcgagcg gccgcccggg caggtacagg ctagacttag tgcttcctgc acacttctac 120
tgtcatccca ggctcctccg cccagactcc agcctgtgaa atttttctag taagaagtgg 180
gcaccattcc ctttgcttgt atgcttctaa accctaaggc atgaactctc tcgttgcaact 240
gttccagtgc atcttggtgc tactgggttct cttagagaat ccctagccag gataaaaatg 300

cttctactct	aagactttgt	aaatttcagt	tttccattta	ataaagccta	ttggaaagtt	360
aaaagttaaa	tatgaagcac	aaactcattc	acttaaattt	tattcaacaa	ttgtcttttag	420
aatttttagga	agttttttta	tttacctatt	tctctcaacc	gtaaagtttt	cattaaaatt	480
ttggagcaac	agggaaaatt	aaattctgct	atactcatga	taattattca	tccttcanga	540
ttgttttaga	agctaaaaca	gataaagcat	aaatgttcta	aaaagatttt	gcccgttggt	600
attcttattt	tcctactgta	cctcggccgn	gaccacgcta	agggcgaatt	ccagcacact	660
ggcggccgnt	actagtggat	ccgagctcgg	tacccaanct	tggcgtaatc	atggncatag	720
ctgttcctgn	gngaaatngn	natncgntna	caattnccac	acatacnann		770

<210> 179

<211> 502

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(502)

<223> n = A,T,C or G

<400> 179

cnnnttgacn	tgattcgcca	acttggtacc	gagctcggat	ccctagtaac	ggccgccagt	60
gtgctggaat	tcgcccttag	cgtggctcgcg	gccgaggtac	ctggccccc	acttctcgaa	120
taaaatgaaa	ctatgattct	tggcctcact	cactaccatg	tgacattgat	caaatcactt	180
cacctctcca	aacctcagag	tctttatctg	taagatggaa	aaagtaacac	ctacttcagg	240
ggctgtcatg	aggattaaat	aaatgtgccc	agcaggtagt	aagtatacaa	cacaaagcat	300
ctaattggtc	attcatacat	ttgcttattt	tgcaattatt	ggccacctgc	caatgttggtg	360
cactgttcta	ggcacagggg	atacagcaag	ggcaaacc	taactactgg	tggagggag	420
acgataaaca	aatacgtaaa	gatttgtgcc	aggtagtgat	aaaagcaaag	aatgactcat	480
ggagagggtc	agctggggag	ac				502

<210> 180

<211> 823

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(823)

<223> n = A,T,C or G

<400> 180

gggccttnna	gcatgctcga	cggccgccat	gtgatggata	tctgcagaat	tcgccctttc	60
gagcggccgc	ccgggcaggt	actgcgtggt	ctccccagct	gacctctcc	atgagtcatt	120
ctttgctttt	atcactacct	ggcacaaatc	tttacgtatt	tgtttatcgt	cttccctcca	180
ccagtagtta	ggtgtttgcc	cttgctgtat	cccctgtgcc	tagaacagtg	cccaacattg	240
gcaggtggcc	aataattgca	aaataagcaa	atgtatgaat	gaaccattag	atgctttgtg	300
ttgtatactt	actacctgct	gggcacattt	atttaatcct	catgacagcc	cctgaagtag	360
gtgttacttt	ttccatctta	cagataaaga	ctctgagggt	tggagagggtg	aagtgatttg	420
atcaatgtca	catggtagtg	agtgaggcca	agaatcatag	tttcatttta	ttcgagaagt	480
tggggggccag	gtacctcggc	cgcgaccacg	ctaagggcga	attccagcac	actggcggcc	540
gttactagt	gatccgagct	cggtagccaag	cttggcgtaa	tcatggtc	agctgtttcc	600
tgtgtgaaat	tggtatccgc	tcacaattcc	acacaacata	cgagccggaa	gcataaagt	660
taaagcctgg	ggtgccta	gagtgcct	actcacatta	attgcgttgc	gtcactgcc	720
cgcttttcag	tcgggaaacc	tgtcgtgcc	gctgcattaa	tgaatcgcc	aacgcgccg	780
gaaaagcngn	ttgcgtattg	gggcgctctt	ncgctttctt	gcn		823

<210> 181

<211> 501

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

<400> 181
cantatgacn tgattcgcca acttggtacc ngctcggatc cctagtaacg gncgccattg 60
tnctggaatn cgncccttagc gtggtcgcgg ccgaggtact ttcttcnttt nctnnaattt 120
tccataacct agtgccngnt tgatnccctc acatggntgg ttcacatncn cngtacagan 180
gncggncac catggganag ggcagcactc ntnccttctn angggatctt ggcctaangg 240
tgtacnaagg gagangatgg antntcttct gncctcncta nggcctaggg aacccagnag 300
canatcccac nacnccttcn atntttnagc caaggagaag ccccttggtg acnttnagtt 360
ccaaccatta tacncagtgn gagaatggat nntcctggtc ccaaccatta caggggtgaag 420
atatnaacag ttaaggaaga tacagtttng atgaggcctc anganggagc agntnacacc 480
atcatannca tatgcaggga a 501

<210> 182
<211> 830
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(830)
<223> n = A,T,C or G

<400> 182
ggcccttnga ngcatgctcg acggccgcca tgtgatggat atctgcagaa ttcgcccttt 60
cgagcggccg cccgggcagg tacacgagaa gctccgagga tggctgaagt ccaacgtctc 120
tgatgcggtg gctcagagca cccgtatcat ttatggaggc tctgtgactg gggcaacctg 180
caaggagctg gccagccagc ctgatgtgga tggcttcctt gtgggtggtg cttccctcaa 240
gcccgaattc gtggacatca tcaatgccaa acaatgagcc ccatccatct tccctaccct 300
tcctgccaaag ccagggacta agcagcccag aagcccagta actgcccttt ccctgcatat 360
gcttctgatg gtgtcatctg ctccttcctg tggcctcatc caaactgtat cttcctttac 420
tgtttatatc ttcaccctgt aatgggttggg accaggccaa tcccttctec acttactata 480
atgggttgaa ctaaactgca ccaaggtggc ttctccttgg ctgagagatg gaaggcgtgg 540
tgggatttgc tcctgggttc cctaggccct agtgagggca gaagagaaac catcctctcc 600
cttcttacac cgtgaggcca agatcccctc agaangcang agtgcttgcc cttcccatgg 660
tgcccgtgcc tcttgtgctg ngtatgtgaa ccaccccatg tgagggaata aacctggcac 720
tangtccttg aaaaaanaaa aaacntnaaa aaaantccct tcggccgnga ccacgctaag 780
gnccaattcc ancacaatgg gcgnnccgtna ctantggatc caaccttnc 830

<210> 183
<211> 484
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(484)
<223> n = A,T,C or G

<400> 183
ttgacatgat acccaacttg taccgagctc ggatccacta gtaacggccg ccagtgtgct 60
ggaattcgcc ctttcnagcg gccgcccggg caggtagccc agcccggccc actgagtttg 120
ccttctatcc gggatatccg ggaacctacc agcctatggc cagttacctg gacgtgtctg 180
tgggtgcagac tctgggtgct cctggagaac cgcgacatga ctccctgttg cctgtgggca 240
gttaccagtc ttgggctctc gctgggtggc ggaacagcca gatgtgttgc cagggagaa 300
agaaccacc angtccttt ttggaaggca gcatttgag acttcaacgg gcaaaacctc 360
tgacgcctgc gcctttcgtc gcggnccgag aaaccatttc gnactttaan attgaatctt 420
ctctaagggtt ganaatttct ggatcccttg anaactttta canntgnnct ttantcctt 480
taaa 484

<210> 184
<211> 824
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(824)
<223> n = A,T,C or G

<400> 184
ggccttagag ctgctcgacg gccgccatgt gatggatata tgcagaattc gcccttagcg 60
tggtcgcggc cgaggtacca gattggccac tctagggtag aacaccaggt agattcctaa 120
ggttcctgac tccagggcct ggctcccagt tggcatctct ggacctactt ggggtcacag 180
tgaactcact gccctgaagg gaagatgcct ggctggatat gccacctgct gattggagag 240
tccttggaac ttgagtgaac acaggtggta gccaggcagt gatcatcata ggccttgggt 300
gagccccagt gctgtgttgg cttcaggtct gacacagagc tgtcccagtg gtagtcgcca 360
caggggtgct tgtgtcatca tcccttctcc agctccaggc agctcagcac agagacatag 420
tgtccatttg tttgagtga agtaaaagaa gagaacaaga gtctccacct agtaatccag 480
ggaattctcc cagatcttac ccaagacaac caaggcaaga gacacagcat tactgggctg 540
gaggtgcccc ctaatgcagg tatggctgca gtgaacaaag acttagatca caacacccaa 600
atcccttcta atagttggaa agccttncca agaaggatgc cggacaaaca agcccaaact 660
gtgaagacta caacaaatac ctaactcttt caatgccagc acactgaaga atatcccaa 720
ctttaagacc atccatgaaa acatgacctt accaacaagc taaataagac accagtgacc 780
aatcccagag agatagagat atgtgtcctt tcnnacagag aatt 824

<210> 185
<211> 499
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(499)
<223> n = A,T,C or G

<400> 185
cacttgacnt gatacgccaa cttgtaccga ctccgatcca ctagtaacgg ccgccagtgt 60
gctggaattc gcccttagcg tggtcgcggc cgaggtactt tttctttttt nttntatatt 120
tttttttcgt ctccecaaaag ctttatctgt cttgactttt taaaaaagtt tgggggcaga 180
ttctgaattg gctaaaagac atgcattttt aaaactagca actcttattt ctttccttta 240
aaaatacata gcattaaatc ccaaactcta tttaaagccc tgacagcttg agaaggtcac 300
tactgcattt ataggacctt ctggtgggtc tgctgttacg tttgaagtct gacaatcctt 360
gagaatcttt gcatgcagag gaggtgaagag gtattggatt ttcacagagg aagaacacag 420
ccgcanaatg aagggccagg cttactgagc tgccaatgga gggctcatgg gtgggacatg 480
gnaaagaagg cacctagcc 499

<210> 186
<211> 504
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(504)
<223> n = A,T,C or G

<400> 186
cacttgacnt gatacgccaa cttggtaccg agctcggatc ctagtaacg gccgccagtg 60
tgctggaatt cgcccttagc gtggtcgcggc ccgaggtacc tcaggagggtc tgcaagtgtg 120
tggttaggta aaaactganc tgtgcaaact cactgtatcc aagctcttct catgagagag 180
cggaacaacc tggcaagctt aaaggcaagt gttttcgttc ttttaattaa ataggctgtg 240

acaaaattaa	caataaaact	agcccagaac	caaccagccc	ggtaagtgtc	gtgcaaattct	300
tgcagtaaca	aaagaccatc	tgagagacta	cacgttggtc	tccagtccta	gcaagcgtcc	360
cattctctnc	acattcttat	caattgtagc	ttgacatgtt	atctccttgg	cacattccat	420
aggaaaccag	cctctttctn	catctcgtag	tcgntccccc	ttataaccagc	catcgctgac	480
acgtttgata	gatgaagacg	acgt				504

<210> 187

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 187

gggcctctna	gctgctcgnc	ggccgccatg	tgatggatat	ctgcagaatt	cgcccttttcg	60
agcggccgcc	cgggcaggta	cgcggggact	gggtttttct	ccttttgtag	ccttttcctt	120
tagtctcctc	ttcccgggtg	ttggtaaaaa	gaggtgaatt	gacagcctat	ggtgaagaca	180
ctgtgctttt	ctcaagaagg	acatccaaac	agcaagtcta	cttctttctc	tttaacgatg	240
tgctcattat	caccaagaag	aagagtgaag	aaagttacaa	cgtcaatgat	tattccttaa	300
gagatcagct	attggtggaa	tcttgtagca	atgaagagct	taattcttct	ccagggaaga	360
acagctccac	aatgctctat	tcaagacaga	gctctgccag	tcacctcttt	actctgacag	420
tccttagtaa	ccacgcgaat	gagaaagtgg	agatgctact	aggagctgag	acgcagagcg	480
agcgagcccg	ctggataact	gccctgggac	acagcagcgg	gaagccgcct	gcagaccgaa	540
cctcactgac	ccaggtggaa	atcgttaggt	catttactgc	taagcagcca	gatgaactct	600
ccctgcaggt	ggctgacgtc	gtcctcatct	atcaacgtgt	cagcgatggc	tggtatgagg	660
gggaacgact	acgagatgga	gaaagaagct	ggtttcctat	ggaatgtgcc	aaggagataa	720
catgtcaagc	tacaattgat	aagaatgtgg	agagaatggg	accttgctag	gactggagac	780
caacgtgtag	tctctcaaan	gncttttggt	actgcaagat	tg		822

<210> 188

<211> 504

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(504)

<223> n = A,T,C or G

<400> 188

tatgancatg	atacgccaac	ttggtaccga	gctcggatcc	actagtaacg	gcccgccagt	60
gtgctggaat	tcgcccttag	cgtgggtcgcg	gccgaggtag	caaaaaagta	aacattgata	120
atatggcctg	acaacaatca	gatatgctaa	gctctagaag	caaaagcaag	gtaggattgc	180
ctccaaatgt	tgacaggtat	tagccatacc	acagtaacta	gatctaattg	gagggctaaa	240
tgccctggaga	ggcagaaccc	taaaggatgc	ttagttatag	ctccatgctg	ccgccgagtg	300
gcttgatgct	ccattacacc	ctccttggat	ccaaccttcc	attaaggctg	aaggctctag	360
agggcagagt	attcaagatg	ttagatctgg	tccaagccca	aattctagag	ttaaaagcag	420
aggggttctt	agtggctgaa	aaaaaacaaa	acctgatgac	atttgggact	ccagttttga	480
ggaaaggctc	tgatgatgag	gctt				504

<210> 189

<211> 842

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(842)

<223> n = A,T,C or G

<400> 189
nnnnnnnnntt tttgaaccgg ccctntnang catgctcgac ggccgccaatg tgatggatat 60
ctgcagaatt cgccctttcg agcgcccgcc cgggcaggta cccttctcgc ttttgccatt 120
agccaaggat agaagctgca gtggtattaa ttttgatata atctttcaaa ccagcttcat 180
gtggcttccc ttttctttgt tcaagatgag ggccaggagg ggaaacatca cacctgccct 240
aaacctgtt cctggaggtc agcatttgat ctgttgcaag cccctctttc tgtcccctct 300
tcctaccctg cctcccatga ctttgctcct cactcttttg gaaccatgcc ttccgggggg 360
gcccattctt tctggccgct cttgtctctg ggccacttgg agtgtgtgat aaatcagtca 420
agctgttgaa gtctcaggag tctctggtag cctgcagaag taagcctcat catcagagcc 480
tttccctcaaa actggagtcc caaatgtcat caggttttgt tttttttcag ccactaagaa 540
cccctctgct ttttaactcta gaatttgggc ttggaccaga tctaacatct tgaataactct 600
gccctctaga gccttcagcc ttaatggaag gttggatcca aggagggtgt aatggagcat 660
caagccactc ggccggcagca tggagctata actaagcatc ctttaggggt ctgcctctcc 720
aggcatttag cccctacatt agatctagtt actgtggtat ggctaatacc tgtcaacatt 780
tggaggcaat cctaccttgc ttttgcttct agagcttagc atatctgatg gttgcaggcc 840
cg 842

<210> 190
<211> 503
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (503)
<223> n = A,T,C or G

<400> 190
actatgacct gattacgcca agcttggtac cgagctcgga tccctagtaa cggccgccaag 60
tgtgctggaa ttcgcccttt cgagcgcccg cccgggcagg taccatgctg acttcttggg 120
atcttttaag gcctaatttt cccttccctg agattactgt agtgtgttcc agctaatttc 180
tatttggaag cgagttggaa cagctgaaaa ctaggtatta ttgaaggcaa agcagcctca 240
cgtcagtttt ttatcagctc atttggaag tttttttttt ttttttttaa ttaattagaa 300
agtaggctgg acacggtggc tcatgcctat aatcccagca cttggggagg ccgaggatct 360
cctctctggt ggatcacttg agggcaggag ttaagagacc atcctggcca acatgatgaa 420
accctgtctc tactaaaaat acaaaaagta nctgggcgtg gtggcatact cttacaatcc 480
cagctacttg ggaggctgag gca 503

<210> 191
<211> 829
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (829)
<223> n = A,T,C or G

<400> 191
gggcctctga gcatgctcga cggccgccaat gtgatggata tctgcagaat tcgcccttag 60
cgtggctcgc gccgaggtag tttttttttt tcttttttta catctgattt taatgcttcg 120
ttaacttcaa aaggaactgg tagagttcag aagggtgagct gttgtttttc taaacctctt 180
cccaggaagg ggacattgac acttgaattt ttgtcacctt tttcctcatt agaaggaaag 240
tagaaagcct tactgtagga tttttaaaaa aaaatccatc tcaccccata ttggtcttaa 300
ataagtatag actaattaac ctaagctacc ttttaacaac tagaatttag atgggttcat 360
atatgtgaga aaaacctgaa tataggacag gggtcctact tttttcccca cctctgtcgc 420
ccaggctaga gtatagtggg gtgatcttgg ccactgcaa cctctgcttc ctaggttcaa 480
gtgattctcc tgcctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgccc 540
agctactttt tgtattttta gtagagacag ggtttcatca tgttgccag gatggtctct 600
taactcctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtctgg 660
attataggca tgagccaccg tgtccagcct acttttcta taattaaaaa aaaaaaaaaa 720

aaactttcca aatgagctga taaaaaactg acgtgaggct gctttgcctt caataatacc 780
tagttttcag ctgtccaact cgtttccaaa tagaaattaa gctgggang 829

<210> 192
<211> 503
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(503)
<223> n = A,T,C or G

<400> 192
ntatgaccat gattacgcca agcttggtac ccgagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct ttcgagcggc cgcccgggca ggtactgcct ttgggcttct 120
tctctctcct gttttctcct ctcgaaattct ttactgtttt aatacattgt tcttctggct 180
gaggctggtc aaagctacac tgatcttcaa ataaaggctc gtcaatgcta cactgttctt 240
caagcaacgg ctggtgaact tgttctgaca aaggatggtc gacttttctt gcttgcttcc 300
tatgtctttc ctcttcagct aaatagagat gtttcagatt atctgggtat cgatctgtga 360
attgagattc cagtgcggtt tgagccttct tttccttccg tagcaatttc ttgtaacttt 420
gctgtatttt cagttttctt cgaaaagcaa agccttgctc ctgcggaacg ctccccacga 480
agcttgcggg tggttaggcc gca 503

<210> 193
<211> 834
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

<400> 193
ancggctctc tagagctgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60
tagcgtgggc gcggcncgag gtacaattca ttatgtgttt cattaattac ctttattaaa 120
aacaacacaa ttatattaca atagggacaa aaaatgttta agcaaataaa aacgaaacca 180
tgacataccc aaactcagga ggaggcaaca aaggcagtcg taaagggaag cttacagctc 240
cagatgctta aattaaaaag aagaaagatc tcaaaccat gctaaaggga agcttacagc 300
tacagatcct taaattaaaa agaagaaaga tctcaaacc atgctaaagg gaagcttaca 360
gctgcagatg cttaaattaa aaagaagaaa gatctgaaac ccttgctaaa gggaagctta 420
tagctgcagg tgcttaaatt aaaaagaaga aagatctcaa atcaataacc taacattaca 480
cctgaagggg gggaaaaaaa ctaatgacaa accaagcaaa aggaagaaaa taacagatta 540
gagcagagat aagcagaata agaccagaaa aaaggaaaaa aacactgagt ttgttttttt 600
aaagatcaat aaaaatttta aaactcacag ctatatataa aaaaaagaga aatctcaaat 660
actaaaatca taagtaaaag angtgacagt acaggaataa gaatgtgaga cagaagacat 720
ggcggcctac caccgcgaag ccttcgtggg gagcgttcgc ganggacaag gctttgcttt 780
tcgaagaaaa ctgaaaatnc cgcaaagttc cagaaattgt tcngaagaaa agaa 834

<210> 194
<211> 502
<212> DNA
<213> Homo Sapien

<400> 194
cacttgacct gattcgccaa gcttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgccctttc gagcggccgc ccgggcagga cgctgaggcc tgggagtctc 120
ttgactccac tacttaattc cgtttagtga gaaacctttc aattttcttt tattagaagg 180
gccagcttac tgttggtggc aaaattgcc aacataagtt atagaaagtt ggccaatttc 240
accccathtt ctgtggtttg ggctccacat tgcaatgttc aatgccacgt gctgctgaca 300
ccgaccggag tacctcggcc gcgaccacgc taaggcgcaa ttctgcagat atccatcaca 360

ctggcgccg ctcgagcatg catctagagg gcccaattcg ccctatagtg agtcgtatta 420
caattcactg gccgtcggtt tacaacgtcg tgactgggaa aaccctggcg ttaccaact 480
taatcgctt gcagcacatc cc 502

<210> 195
<211> 848
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

<400> 195
gnnnnnnntt tnnaatgggc ctctnnagca tgctcgagcg gccgccatgt gatggatata 60
tgcagaattc gcccttagcg tggtcgcggc cgaggtactc cggtcggtgt cagcagcacg 120
tggcattgaa cattgcaatg tggagcccaa accacagaaa atggjgtgaa attggccaac 180
tttctattaa cttatgttgg caattttgcc accaacagta agctjggcct tctaataaaa 240
gaaaattgaa aggttttctca ctaaacggaa ttaagtagtg gagtcaagag actcccaggc 300
ctcagcgtcc tgcccgggcg gccgctcgaa agggcggaatt ccagcacact ggcgggcggt 360
actagtggat ccgagctcgg taccaagctt ggcgtaatca tggtcatagc tgtttcctgt 420
gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa 480
agcctggggg gcctaattgag tgagctaact cacattaatt gcgttgcgct cactgcccgc 540
tttccagtcg ggaaacctgt cgtgccagct gcattaatga atcgccaac gcgcggggag 600
aggcggtttg cgtattgggc gctcttcgcg ttcctcgctc actgactcgc tgcgctcggt 660
cgttcggctg cggcgagcgg tatcagctca ctcaaaggcg gtaataccgg tattcacaga 720
attcagggga taacgcagga aagaacatgt gagcaaaagg ncagccaaag gccaggaacc 780
cgtnaaaagg ccgcgttgct ggcgttnttc cataggctcc gcccccttga cgagcatnac 840
aaaaatct 848

<210> 196
<211> 511
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G

<400> 196
canntatgac ctgattacgc caagcttggt accgagctcg gatccactag taacggccgc 60
cagtgtgctg gaattcgccc ttagcgtggt cgcggccgag gtactttttt tttttttttt 120
ttttttttt ttttagggtt ataaaagccc ttttataaag ccatttttaa acaaaacaaa 180
aaaaaagttt acaaaagaaa aaaagatnca gaaaaagaat aacttgcttc atatgtccca 240
aaaagagaaa aaaataaagg ggacaatgcc aacatgctca acaataaagg cttctttttc 300
ttattttttt aatacaaaaat ncaagcaaag gatacacata cttaaaacag agctcaggag 360
canacacgca ntctggaaa ccttcaata aancaaaagc aggagtttgn tttttctttg 420
tctatgcana tacatacaga gactgggata tgtaaaaatt aagtatnaca aaagaccatt 480
acacgattct accaatgcat gttgcatctn g 511

<210> 197
<211> 816
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 197

gggcctctag	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactaaggaa	gttaaagttt	gaatgtaacc	actttattta	120
aaagggtttt	ttctttaatt	taaatgaaat	ggggttgaag	tgaacatgat	tttggtgacc	180
atgttcgtga	attacagatg	caacatgcat	tggtagaatc	gtgtgatggg	cttttgtgat	240
acttaatttt	tacatatccc	agtctctgta	tgtatctgca	tagacaaaga	aaaaacaaac	300
tcctgctttg	cttttattga	agggtttcca	ggactgctg	tctgctcctg	agctctgttt	360
taagtatgtg	tatcctttgc	ttgtattttg	tattaaaaaa	ataagaaaaa	gaagccttta	420
ttgttgagca	tggtggcatt	gtccccctta	tttttttctc	tttttgggac	atatgaagca	480
agttattctt	tttctgtatc	tttttttctt	ttgtaaactt	tttttttgtt	ttgtttaaaa	540
atggctttat	aaaagggtct	ttataaccct	aaaaaaaaaa	aannnnnnna	aaaaaaaaaa	600
gtcctcggcc	gcgaccacgc	taagggcgaa	ttccagcaca	ctggcggncg	ttactagtgg	660
atccgagctc	ggaccaagct	tggcgtaatc	atggncatag	ctgttcctgt	gtgaaatgtt	720
atccgctcac	aattcccaca	catacaaccc	ggagcataaa	gtgtaaacct	ggggtgccta	780
atgagtgagc	tactcaataa	ttgcgttgcg	ctcang			816

<210> 198

<211> 498

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 198

tgattcgcca	agcttggtac	cgagctcgga	tccactagta	acggccccgc	agtgtgctgg	60
aattcgccct	tcgagcggnc	gnccgggcag	gtacaattca	gagcagggtg	ccatagaaac	120
aactaggnnt	gaaaaaactg	taagacaatt	cacagttgaa	atcaaaccac	cactgtgaat	180
gtgttaaata	cttgccatat	aacaacactt	taacattgat	cttgctaaat	aaggctatga	240
ttcataagat	gcatggattt	ccaaagctgn	ttaacattct	tataaattaa	ttcacaggat	300
tcaaatagtt	gcttttttagc	ttcaactggg	tattagcaaa	aatnatataa	aatgatcccc	360
gtgcaagcac	aaatttacct	tcctttctaaa	taaaacatga	cagattatat	tacaacttga	420
tagcctctct	tttaaaaagt	ctgtgacatt	attaaagagg	tgacggaatg	cttgntttgc	480
aaaccccaac	acatcttt					498

<210> 199

<211> 837

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(837)

<223> n = A,T,C or G

<400> 199

nnnnnnntnn	cantgggcct	ctagagctgc	tcgacggccg	ccatgtgatg	gatatctgca	60
gaattcgccc	ttagcctggg	cgcggccgag	gtaccttgag	atctgagcaa	ctgtgttaat	120
gaagtaatag	caatgggtcca	cagtgaagaa	tgtgttgggg	tttgcaaaac	aagcattccg	180
tcacctcttt	aataatgtca	cagacttttt	aaaagagagg	ctatcaagtt	gtaatatata	240
ctgtcatggt	ttatttagga	aggaaggtaa	atttgtgctt	gcacggggat	catttttgat	300
tattttttgct	aataccaggt	tgaagctaaa	aagcaactat	ttgaatcctg	tgaattaatt	360
tataagaatg	ttaaacagct	ttggaaatac	atgcatctta	tgaatcatag	ccttatttag	420
caagatcaat	gttaaagtgt	tggtatatgg	caagtattta	acacattcac	agtgtttggt	480
tgatttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	atggacacct	540
gctctgaatt	gtacctgccc	gggcggccgc	tcgaaggggc	aattccagca	cactggcggc	600
cgttactagt	ggatccgagc	tcggtaccaa	gcttggcgta	atcatggtca	tagctgnttc	660
ctgtgtgaaa	ttggtatccc	gtcaccaatt	ccacacaaca	tacgagccgg	aagcataaag	720
tgtaaagcct	ggggtgccta	atgagtgagc	taactccatt	aattgcgttg	cgctcactgg	780
cccgccttnc	agtcnggaaa	cctgtctgcc	anctgcatta	atgaatcggc	caccccg	837

<210> 200
<211> 506
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(506)
<223> n = A,T,C or G

<400> 200
nnnnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct tagcgtgggc gcggccgagg tactgcatcc ataatttatc 120
gccatgtgca acagctttgc gttttctaag gcacaatttt taatgaaatg atgtgtagat 180
ttcaatctaa taacagctca tccaaatgac aaatatgggc gaaatccctc cagtggctga 240
ggaaatttct gcacctatat ggaaccacac tgcaaagaac ccatctagca tgtaataaat 300
aatcgctagc catactcaat aagacacgga aaaatatttg cttacataac agaaaaacat 360
ctacttgacc cccttttatg actacatcaa tctactagga gtgtatccat agtctacatt 420
cacaaaatgt catcttgact tatttgccat tgatttaagg cagaataaat agtccccctt 480
tccccagtct taacaacaaa aaacaa 506

<210> 201
<211> 864
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(864)
<223> n = A,T,C or G

<400> 201
ccnntanagc atgctcgacg gccgcccggg caggtacett ggaagttatg tcattaatat 60
aggctggttc atcaaataaa gcaaaacctt gcaatatcag ctagatttac actccgggac 120
gttgcccaa ggtaggaaga aagcaggggg aaatatattc gtcattcatt ccaaagtcac 180
tatcaaaatc tgtgaggaag tttaatcttc caaagagtca atgtcagaca tcaggcctct 240
gttgccctgt tctctcgagg cactagatta ggagtcttca ataagagact taacatgagg 300
tatatggaag atgaggcacc gagataagtt catcattagg tgtgagcact gtcaccctt 360
gctggcaagt tctccttaag ggcctgaagc acaggtgtcc aaagaaaagc gttaagtcca 420
tcttaataga atctatgtgg tatatgatgt ggtcagcccc tggctctgtga tcagcaagaa 480
cctacagcac agattatgcc ctgcccactt caatgaatac ctactctcct ncattctcca 540
tcaatttttt gctatcaaga ctccggacct tgcccatgga gaagtttaga gaggaactct 600
tgtggagagc tgggttaatt tctgccctgt gcgacaagtt tcaacttggc caagaaangg 660
agtcaagtta ttaaaaagca tcacaatgta gaatcttcca ggctggggtt tttggnnttt 720
tnggtggttn aanactgggg gnaaaagggg ggacctattt aaattccngg cctttaaaat 780
caaattgggc aaaattaagt tcaaggaatg gaccattttt nggggnaaat ggttngaacc 840
ttntnggan ttccncctt ccct 864

<210> 202
<211> 505
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(505)
<223> n = A,T,C or G

<400> 202
gnntnanacn nttactaat antganttag tnccgactcg atccctctna ctncantnan 60
ancgntngaa ttgcccttnn tagcggccnt ccngncaggt acaaccagtt tggaaaacag 120

tntcacagtt	tttttaaaaa	ttacatatat	aaccancaac	tgacccagcc	atttcactcc	180
taggtattta	cccaagatna	actgaagtgt	agatacaagc	anagacttgn	gcacaagtgt	240
tcatggtaag	ctttactngc	antagctcca	aactanggac	aactcaaata	gccaacangg	300
aaatggacaa	attatgttac	tttcatacag	tggaatatcc	tcttgtgata	aaaataantg	360
aacanttgat	acatggatga	atctcaaaat	aattatgctg	agtaaaagaa	gccagacaaa	420
atgtacagtg	catacagcta	ttcatgtggg	tgccagctcc	atcccccagt	gacctcttca	480
tacggncaga	gggtggcatg	gcanc				505

<210> 203

<211> 819

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(819)

<223> n = A,T,C or G

<400> 203

ggcctcngca	gcatgctcga	ncggccgcca	tgtgatggat	atctgcagaa	ttcgccctta	60
gcgtgggtcgc	ggccgaggta	cgcgggagag	caggaccgga	gcgcgggcca	agctggagat	120
ggatgatgct	gaccctgagg	aaagaaacta	tgacaacatg	ctgaaaatgc	tgctcagatct	180
gaataaggac	ttggaaaagc	tattagaaga	gatggagaaa	atctcagtgc	aggcgacctg	240
gatggcctat	gacatggtgg	tgatgcgcac	caaccctacg	ctggccgatt	ccatgcgtcg	300
gctggaggat	gccttcgtca	actgcaagga	ggagatggag	aagaactggc	aagagctgct	360
gcatgagacc	aagcaaaggc	tgtaggcccc	actggcccac	cacagctgcc	atgccaccct	420
ctgcccgtat	gaagaggtca	ctgggggatg	gagctggcac	ccacatgaat	agctgtatgc	480
actgtacatt	ttgtctggct	tcttttactc	agcataatta	ttttgagatt	catccatgta	540
tcaattgttc	acttattttt	atcacaagag	aatattccac	tgtatgaaag	taacataatt	600
tgtccatttc	cctgttggct	atttgagttg	tccctagttt	ggagctattg	cgagtaaagc	660
taccatgaac	atttgtgcac	aagtctttgc	ttgtatctac	acttcagttt	atcttgggta	720
aatacctang	agtgaaatgg	cttgggtcaa	tntgttgggt	ggatatgtaa	ttttttaaaa	780
aaaactgnga	tactgttttc	caaactgggt	tgccctct			819

<210> 204

<211> 840

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(840)

<223> n = A,T,C or G

<400> 204

gnnnnntttt	nnctnntgga	accggttttg	nnaagctgct	cgacggccgc	catgtgatgg	60
atatctgcag	aattcgccct	tagcgtggtc	gcggccgagg	taccttnaga	tctgagcaac	120
tgtgttaaat	aagtaatagc	aatgggtccac	agtgaagat	gtgttggggg	ttgcaaaaca	180
agcattccgt	cacctcttta	ataatgtcac	agactttttt	aaaagagagg	ctatcaagtt	240
gtaatatata	ctgtcatggt	ttatttagga	aggaaggtaa	atttgtgctt	gcacggggat	300
catttttgat	tattttttgct	aatacccagt	tgaagctaaa	aagcaactat	ttgaatcctg	360
tgaattaatt	tataagaatg	ttaaacagct	ttggaaatac	atgcatctta	tgaatcatag	420
ccttatttag	caagatcaat	gttaaagtgt	tgttatatgg	caagtattta	acacattcac	480
agtgtttgtt	tgatttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	540
atggacacct	gctctgaatt	gtacccttca	gtcaccagca	aaagcatttc	cacctcttct	600
aacccccaat	cagaccactg	cattcagtg	tattggagga	ctttcatcac	agcttccagt	660
aggtgggtct	tggcacaggc	agnctgactg	gtatangaac	tggtgctctt	ggactccctg	720
cagtgaataa	cgacctttt	gtacctgccc	ggcgccgcgc	taagggcgaa	ttccacacac	780
tggccggccg	ttactagtng	gatccnaact	cgggtccaaan	cttggcggtat	tcatggtcnt	840

<210> 205

<211> 497

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(497)
<223> n = A,T,C or G

<400> 205
nnnnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct tagcgtgggc gcggccgagg tacatttact ataaaagctg 120
ttgcatttta gacaacttgt tgttttttatt ttttactgtt tctcagaggc attttagaat 180
aaatacttta aatgaaagtt agtataaccg atatagaaca ctggcccacc cagagcagta 240
acatcttttg gacggactca catatgaggt ggatcatttc agtttggtta atcttacact 300
gtgtatagat aactataata tgtattgcat taatcacact acatagaaag gaaatgtcat 360
ggaagtgcgc tagtgaaaaa caaaaagtta cccattattt ttattaaaga gtagggacta 420
gcttttgag tatgagaaaa aaaatcagat atacttcctc aggaacaata aatcactcac 480
ttgcctcacc tgtttttt 497

<210> 206
<211> 820
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 206
gggcctntag aagcatgctc gagcggccgc cagtgtgatg gatatctgca gaattcgccc 60
tttcgagcgg ccgcccgggc aggtacatgt attgaagcta gaatcgagtc aagaaaaata 120
aagccccatt ctccaactgc aaaatgtgct ttcccataat gaacactagt caccagcaca 180
gaataatctc caacattttc taaattctaa ttgccaaactg tttctattta tatttgattt 240
atatttcatt tggagtctgt tacatggcag cttaggcaga ctagatcttg ttttttccaa 300
tgcagcataa tgagtatgat ctatttcctt tcaaataatc tttgagatcc caggaaaaaa 360
aatgctctgc tccattgagc tataatgtaa atgtgtttgt ttaaaaaaca ggtgaggcaa 420
gtgagtgatt tattgttcct gaggaagtat atctgatttt ttttctcata ctccaaaagc 480
tagtccctac tctttaataa aaataatggg taactttttg ttttctacta gcgaacttcc 540
atgacatttc ctttctatgt agtgtgatta atgcaatata tattatagtt atctatacac 600
agtgtgaagat ttaacaaact gaaatgatcc acctcatatg tgagtccgtc caaaagatgt 660
tactgctctg ggtgggcccag tgttctatat cgggtatact aactttcatt taaagtattt 720
attctaaaat gcctctgaga aacagtaaaa ataaaaacca caagttgcta aaatgcaaca 780
gcttttatag taaatgtcct tgggcccgcga ccacgcttag 820

<210> 207
<211> 496
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(496)
<223> n = A,T,C or G

<400> 207
cnnttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt agcgtggctg cggcccaggg tacaaaagac aaaatcagag 120
ttcaatttca gcagcaagac ttatcaagaa tttaatcact atttgacatc aatggttggt 180
tgctgtgga cgtccaaacc ctttgggaaa ggaatatata ttgaccctga aatcctagaa 240
aaaactggag tggtgaata taaaaacagt ttaaatgtag tccatcatcc ttctttcttg 300
agttacgctg tttccttttt gctacaggaa agcccagaag aaaggacagt aaatgtgagc 360

tctattcngg gaaagaaatg gagctggat ttggactatt tattttcaca ngggttacaa	420
ggcttgaaac tttttataag aagtagtggt catcattctt ncattcccag agcagaaggc	480
ataaactgca caatca	496

<210> 208

<211> 810

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(810)

<223> n = A,T,C or G

<400> 208

gcatgctcga cggcccgcca gtgtgatgga tatctgcaga aattcgccct ttcgagcggc	60
cgcccgggca ggtactcctt gaggatggca gtctgtcagt gaaatgaaaa tgggaactca	120
agatgagcca ctttgctcta gcaatgagga gtgagtttag tccagtgtgt tcagtttatg	180
tcaacattca tttaatatg attgttgcag tttatgccct ctgctctggg aatggaagaa	240
tgatgaaca tacttcttat aaaaagtctt aagccttgta acccctgtga aaataaatag	300
tccaaatacc agctccattt ctttccccga atagagctca catttactgt cctttcttct	360
gggctttcct gtagcaaaaa ggaaacagcg taactcaaga aagaaggatg atggactaca	420
tttaaactgt ttttatattc agccactcca gttttttcta ggatttcagg gtcaatatat	480
attcctttcc caaagggttt ggacgtccac aggcaaccaa ccattgatgt caaatagtga	540
ttaaattctt gataagtctt gctgctgaaa ttgaactctg attttgtctt ttgtacctcg	600
gccgcgacca cgctaagggc gaattccagc aacttgccgg ccggtactag tggatccgag	660
ctcgggccaa gcttggcgta atcatgggca tagctgtttc ctggtgtgaa attgntatcc	720
gctcacaatt ccacacaaca tacgaaccgg aagcattaag tgtaaagcct ggggtgccta	780
atgagtgagc taacttacat taattgcnt	810

<210> 209

<211> 495

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(495)

<223> n = A,T,C or G

<400> 209

cnnttgacct gattacgcca agcttggtac cgagctcgga tccctagtaa cggccgcccag	60
tgtgctggaa ttcgccctta gcgtggctgc ggccgaggta caactctcca gggcacaata	120
cgtttacagc tgcctttcct tcacatactt ttctaattca gaactactca caattctaag	180
caaattccca ttcacgaagt ctgtccataa tgcgaccttc tcttttttta acatatacat	240
cttaaaaaaac aaatatataa aaaattctta ttttgctgga atgctttcaa tttttcacat	300
tttacatgat catcacattt atttcttata ttgaaaggca tggtttctgt tgacatgtcg	360
tgcaaagcca aaaaaaaaaa anaaaaaaaa aagggtctgga ttgcttttca attggtctaa	420
cacttttcct tgtctaggct ttggatttta aagttcatga cagccccacc accagtagaa	480
accccaaggc ttgca	495

<210> 210

<211> 820

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(820)

<223> n = A,T,C or G

<400> 210

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gggcctcaga gctgctcgan cggccgccat gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccgggcaggt acccacgttt tgctccacac tccttgaccg caggggctcg 120
gacacaaacc cctgtcacca ggagagtcag tcagcactac ttgggagggc taaagggaaa 180
tttgaaata aaattccaaa gtttgagta aaaaaattca agtggtgatt ttatattctt 240
tccctttctg acacagccta aagcgtaggg ggaacatgtg tttatctgtg ggagataaac 300
aagatggagt cccaaagact ttaacaaaat atttttttta aaatccacta gaatagaaaa 360
tacattattt agatatactt tatgctgaga gtgagtatat atgcttgtcc tatttaaact 420
tgtgagaaaa agtggtatcc cttgatacat ttagaaatat gggggctatc ttgtttcatt 480
gtgggggtgg ggcagaagga gaataaatgc aggatgaccc tgttgaagga atcttancat 540
ggccaacagg ggacgtttcc agtcgattac caggaaatgc aagccttggg gtttctactg 600
gtggtggggc tgtcatgaac tttaaaatcc aaagcctaga caaggaaaag tgtagacca 660
attgaaaagc aatccagccc tttttttttt nnnntttttt tttggctttg cagcacatgt 720
caacagaaac catgcctttc aatntaagga aataaatgtg atgatcatgt aaaatgtgaa 780
aaattgaaag cattncacca aataaggaat tttttatttn 820
```

<210> 211

<211> 499

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(499)

<223> n = A,T,C or G

<400> 211

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canttactg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgtggaa ttgcgcccta gcgtggctgc gggccgaggt acaactctcc agggcacaat 120
acgtttacag ctgcctttcc ttcacatact tttctaattc agaactactc acaattctaa 180
gcaaattccc attcacgaag tctgtccata atgcgacctt ctcttttttt aacatatata 240
tcttaaaaaa caaatatata aaaaattctt attttgctgg aatgctttca atttttcaca 300
ttttacatga tcatcacatt tatttcttat attgaaaggc atggtttctg ttgacatgtc 360
gtgcaaagcc aaaaaaaaaa aaaaaaaaaa aagggtctga ttgcttttca atngggctca 420
acacttttcc ttgtctaggc tttggatttt aaagttcatg acagcccccac caccagtaga 480
aaccccaagg cttgcattt 499
```

<210> 212

<211> 821

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(821)

<223> n = A,T,C or G

<400> 212

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gggcccctan agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccctt 60
tcgagcggcc gcccgggcag gtacccacgt tttgtccac actccttgac cgcaggggct 120
cggacacaaa cccctgtcac caggagagtc agtcagcact acttgggagg gctaaagggg 180
aatttgaaa taaaattcca aagtgttgag taaaaaatt caagtgttga ttttatattc 240
tttcccttcc tgacacagcc taaagcgtag ggggaacatg tgtttatctg tgggagataa 300
acaagatgga gtcccaaaga ctttaacaaa atattttttt aaaaatccac tagaatagaa 360
aatacattat ttagatatac tttatgctga gagtgagtat atatgcttgt cctattttaa 420
cttgtgagaa aaagtggat cccttgatac atttagaat atgggggcta tcttgtttca 480
ttgtgggggt ggggcagaag gagaataaat gcaggatgac cctgttgaag gaatcttagc 540
atggccaaca ggggacgttt ccagtcgatt accaggaaat gcaagccttg gggtttctac 600
tggtgggtgg gctgtcatga actttaaaat ccaaagccta gacaaggaaa agtgtagac 660
caattgaaa gcaatccagc cttttttttt tttttttttt ttggctttgc acgacattgt 720
taacagaaac catgcctttc aatattagaa ataatgtga tgatcatgtt aaatgtgaaa 780
aattggaagc cttcagcaaa ataagaattt ttattntttt n 821
```

<210> 213
<211> 497
<212> DNA
<213> Homo Sapien

<400> 213
acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttcgccctta gcgtgggtcgc ggccgaggta caaaacaata gtctaaacta 120
acacgaactg ttacctgggc tattaagga tacacggat ccactaaaca gacagatcct 180
tatttccttg cttgatgttg caaagccctt ggcaaccagg ggcaaaggct actgggggtt 240
gactaactgg ggctgagtgg cagctatgac tgtccttcag atttttgagt tgtttttgaa 300
attaaaagct tctaaaagtt gcatcaacat cctcctaagc ccccatagga ttgtaacacc 360
accacaaaag gccaccaaca cttttttaaac aaagtgaana ctgtctgaca ccaatcatct 420
tgaaaactcc atggcaagtg cattagctat gatttcatca cttacaggta gagaagctta 480
ctgtctactg gtgtggg 497

<210> 214
<211> 817
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

<400> 214
ggccttanag ctgctcgncg gccgccatgt gatggatata tgcagaattc gccctttcga 60
gcggccgccc gggcaggtag tctcagtcac atgcagaaat actttttttt taattaatag 120
ttacaggctt gttgggtccag tgggatttgg gtaggggggag aaagatacct tctaaaatgg 180
atcaatagaa ccaaaataat acagcatgtt ctataaccac aaggaaatca aatgatcctg 240
tcatgattcc agttagtcac aaccatgtta gcagtgcata atgcatttta gaaatgggtga 300
cttctgtggt tttcctagca tttgtctcta acaaattggtg aaataattac tcatggccct 360
ctctgccatt gtctttcatt ttttcacagt gaaattagac ccctttactt caccattctg 420
ccactgcaaa ttaagtataa agaaaatagc aagagtgtcc acaccagtag acagtaagct 480
tctctacctg taagtgtatga aatcatagct aatgcacttg ccatggagtt ttcaagatga 540
ttggtgtcag acagttttca ctttgtttta aaagtgttgg tggccttttg tgggtggtgtt 600
acaatcctat gggggcttan gaggatgttg atgcaacttt tagaagcttt taatttcaaa 660
aacaactcaa aaatctgaag gacagtcata gctgccactc agccccagtt agtcaaacc 720
cagtgcactt tgcccctggg tgccaagggc tttgcaacat caagcangga aataaggatc 780
tgncgtgtag tgggataccg ggtatccttt aatagac 817

<210> 215
<211> 495
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(495)
<223> n = A,T,C or G

<400> 215
acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttcgccctta gcgtgggtcgc gccgaggtag catgctgact tcttggtatc 120
ttttaaggcc taattttccc ttccttgaga ttactgtagt gtgttccagc taatttctat 180
ttggaacga gttggaacag ctgaaaacta ggtattattg aaggcaaagc agcctcacgt 240
cagtttttta tcagctcatt tgggaagttt tttttttttt ttttttaatt aattagaaag 300
taggctgggc acggtggctc atgcctataa tcccagcact tggggaggcc gaggatctcc 360
tctctggtgg atcacttgag ggcaggagtt aagagaccat cctggccaac atgatgaaac 420
cctgtctcta ctaaaaatac aaaaagtagc tgggcgtggg ggcatactct tacaatccca 480
gctacttggg aggc 495

<210> 216
<211> 823
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(823)
<223> n = A,T,C or G

<400> 216
gggcctcaga gcatgctcgn cggccgcccag tgtgatggat atctgcagaa ttcgcccttt 60
cgagcggccg cccgggcagg tacttttttt tcttttttta catctgattt taatgcttcg 120
ttaacttcaa aaggaactgg tagagttcag aaggtgagct gttgtttttc taaacctctt 180
cccaggaagg ggacattgac acttgaattt ttgtcacctt tttcctcatt agaaggaaag 240
tagaaagcct tactgtagga tttttaaaaa aaaatccatc tcaccccata ttggtcttaa 300
ataagtatag actaattaac ctaagctacc ttttaacaac tagaatttag atgggttcat 360
atatgtgaga aaaacctgaa tataggacag gggctcctact tttttcccca cctctgtcgc 420
ccaggctaga gtatagtggg gtgatccttg cccactgcaa cctctgcttc ctaggttcaa 480
gtgattctcc tgcctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgccc 540
agctactttt tgtattttta gtagagacag ggtttcatca tgttgccag gatggtctct 600
taactcctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtctggg 660
attataggca tgagccaccc gtgcccagcc tactttctaa ttaattaaaa aaaaaaaaaa 720
aaaaacttnc caaatgagct gatnaaaaac tgacgtgang ctgctttgcc ttcaataata 780
cctagttttc actggtccaa ctcgtttcca aatagaaatt acg 823

<210> 217
<211> 827
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(827)
<223> n = A,T,C or G

<400> 217
nnnnnnnggc ctntnnagca tgctcgacgg cggccatgtg atggatatct gcagaattcg 60
ccctttcgag cggccgcccg ggcagggtact gtatcattgg cagatgtgac gtcaccgaca 120
accagagtga agtggcggac aaaactgagg attacctgtg gctgaagttg aaccaagtgt 180
gttttgacga cgatggcacc agctccccac aagacaggct cactctctca cagttccaga 240
agcagttgtt ggaagactat ggcgagtcct actttacggg gaaccagcaa cccttctctt 300
acttccaagt cctgttctct acagcgcagt ttgaagcagc agttgccttt cttttccgca 360
tgagcgggt ggcgtgccat gctgtccatg tagcactggg gctgtttgag ctgaagctgc 420
ttttaaaagc ctctggacag agtgctcagc tcctcagcca cgagcctggg gaccctcctt 480
gcttgccggc gctgaacttc gtgcggctcc tcatgctgta cctcgccgc gaccacgcta 540
agggcgaatt ccagcacact ggcggccgtt actagtggat ccgagctcgg taccaagctt 600
ggcgtaatca tgggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca 660
caacatacga gccggaagca taaagtgtaa agcctggggg gcctaataag tgagctaact 720
cacattaatt gcgttgccgt cactgcccgc ttttcaatcg ggaaacctgt cgtgccagct 780
gcattaatga atcggncaac gcccgggan aagcggtttg cgtattt 827

<210> 218
<211> 498
<212> DNA
<213> Homo Sapien

<400> 218
cacttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtactttttt tttttttttt 120
taattccac aacaacccat ttcaaatga gaaaactagg ttgagtgact tgtccacagt 180

tccaaagcta	ataaaaatga	tgaggcatat	ttctcttctg	ggcccactgt	attcagttct	240
ttgttcttta	cactgagtgc	cgaaaaaaa	aaatcagact	attttgattc	tagaaagtga	300
gataattgaa	aatgttaaca	tatttctcca	aaactgatca	gactgtggag	tctgtcactt	360
ttttggtata	ataaaggagt	ttgaagaaac	aaatgacatc	attcctgatg	atggtagccc	420
actccaacaa	aggcgtatat	atgtaggcaa	gtttgaagat	atctataaga	gcattaaaag	480
gcaagtgcac	cattgtgg					498

<210> 219
 <211> 818
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(818)
 <223> n = A,T,C or G

<400> 219						
ggcctntnga	gctgctcgac	ggccgccatg	tgatggatat	ctgcagaatt	cgcccttagc	60
gtggcgcggc	cgaggtacct	agaaaacaga	aacttgagta	gacatggtaa	tgaccagaaa	120
aggctatctt	tatacatctt	ttttgctacg	cttcaaattc	atgtcaccta	aaagttgtga	180
agtgcacaaa	acaaatctac	ttaactgaaa	attattttca	atgaatggga	tgtttagaac	240
tctgtgaggg	tttttaaggt	cttttcgaat	agcaaattct	aatgaggctt	ttttaagttg	300
gcaattttaa	ctcatacaag	aaataaaaac	tcaccagtgt	ggctgggcag	aatatatata	360
ttttctcaaa	tattgtttgt	ttgttttttc	cctgcactgt	atccatggtc	ccatgatgaa	420
actgttatat	tgctgatata	tttattggaa	tatgtgggcc	aacttccttt	ccactcaaca	480
tatggattgg	tagtttataa	taattccttt	ctattaagca	aatgtgtggc	taaggcacat	540
ttaaatagcc	cattaaacca	atgagatgac	aatgtgttac	cctcagagaa	agcttaattt	600
ttggagtaat	caattacaca	tatcacagaa	tgtctcatga	gaacattttt	ggctaggtct	660
accaatttat	catgcaaata	attatagatt	ttcatttgag	gcaaagatgc	tgattcatca	720
ttagtaacat	ggtcacaaat	aatcatttat	tttatttttg	taacatctgt	ctttcctgtg	780
gggaaactta	ctatatgctc	tacgttaatt	aaattaaa			818

<210> 220
 <211> 497
 <212> DNA
 <213> Homo Sapien

<400> 220						
cacttgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacagccat	gaaattgttg	120
ctactcatag	aaagtcttag	tatagtgttg	tttaaacatt	ttaaaattgc	aaataaatat	180
agatagataa	tatcatgatg	agaaggtcac	gggaagcctg	gagatttcag	ggtgctcttt	240
cataattgga	gcgagaatca	tgtaacagtt	aagaaactaa	actcttgagc	cttcatagtc	300
tttgctttct	ccccatttat	ttatctgata	ttatataccc	tctttaatta	tagactggac	360
tgaaatattt	tatttttgtt	ttattataaa	aaatcctact	cgtctttaac	atgttctctt	420
aaagagtgtt	tcatatataa	atactttccc	cccaaaatat	aaagaggcta	accactatag	480
tattgaaaga	ttgaaag					497

<210> 221
 <211> 831
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(831)
 <223> n = A,T,C or G

<400> 221						
cnnnannggg	cctntanagc	atgctcgacg	gccgccatgt	gatggatatc	tgacagaattc	60
gcccttagcg	tggtcgcggc	cgaggtacaa	tgaaagtatg	agctacctct	ctgaagtctg	120

gaaaccttga	gagtattaag	gttacatgca	taaaatcttt	aaaatggaag	tgtcattaca	180
tggtaaacca	attcaaatta	aaaataatct	catgctgtga	aagcaaaata	tataactggt	240
ttacccattc	ataggtaatt	gcacgtcttt	gttacatctc	aatagtttct	ttgtatttgt	300
tgcaatcacc	ctccttcttc	tcaacactct	tttctacctc	catgtaactg	ctgttgtgaa	360
ttctttataa	tattctcatc	aatgtttaaa	gatgaagttt	aaagtgccta	caaaggaagc	420
attttaactc	ctcttagaac	tgagccttta	aatttggttt	tagacaccct	aggtctttct	480
ttcaatcttt	caatactata	gtggtagcc	tctttatatt	ttggggggaa	agtatttata	540
tatgaaacac	tctttaagag	aacatgttaa	agacgagtag	gattttttat	aataaaacaa	600
aaataaaata	tttcagtcca	gtctataatt	aaagagggtg	tataatatca	gataaataaa	660
tggggagaaa	gcaaagacta	tgaaggetca	agagtttagt	ttcttaactg	gtacatgatt	720
ctcgtncaa	ttatgaaaga	gcaccctgaa	atctncangc	ttncctgac	cttctcatca	780
tgatattatc	tatctatatt	tattgcaatt	ttaaaatggt	taaaccaaac	n	831

<210> 222

<211> 497

<212> DNA

<213> Homo Sapien

<400> 222

cacttgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	agcgtggctg	cggccgaggt	actctttctc	tcccctcttc	120
tgaatttaat	tctttcaact	tgcaatttgc	aaggattaca	catttcactg	tgatgtatat	180
tgtgttgcaa	aaaaaaagtg	tctttgttta	aaattacttg	gtttgtgaat	ccatcttgct	240
ttttcccat	tggaactagt	cattaaccca	tctctgaact	ggtagaaaaa	catctgaaga	300
gctagtctat	cggcattctga	caggtgaatt	ggatggttct	cagaaccatt	tcacccagac	360
agcctgttcc	catcctgttt	aataaattag	tttgggttct	ctacatgcat	aacaaaccct	420
gtccaatct	gtcacataaa	agtctgtgac	ttgaagttaa	gtcagcacc	ccaccaaact	480
ttatttttct	atgtgtt					497

<210> 223

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 223

gggcctnaga	gctgctcgnc	ggccgcatg	tgatggatat	ctgcagaatt	cgcccttcga	60
gcggccgccc	gggcaggtac	tttattttca	aaaaactcat	atgtcgcaaa	aaacacatag	120
aaaaataaag	tttgggtggg	gtgctgacta	aacttcaagt	cacagacttt	tatgtgacag	180
attggagcag	ggtttggtat	gcatgtagag	aacccaaact	aatttattaa	acaggatgga	240
aacaggctgt	ctgggtgaaa	tggttctgag	aaccatccaa	ttcacctgtc	agatgccgat	300
agactagctc	ttcagatgtt	tttctaccag	ttcagagatg	ggttaatgac	tagttccaat	360
ggggaaaaag	caagatggat	tcacaaacca	agtaatttta	aacaaagaca	cttttttttt	420
gcaacacaat	atacatcaca	gtgaaatgtg	taatccttgc	aaattgcaag	ttgaaagaat	480
taaattcaga	ggagggggaga	gaaagagtac	ctcggccgcg	accacgctaa	gggcgaattc	540
cagcacactg	gcggccgtta	ctagtggatc	cgagctcggt	accaagcttg	gcgtaatcat	600
ggtcatagct	gtttcctgtg	tgaaattgtt	atccgctcac	aattccacac	aacatacgag	660
ccggaagcat	aaagtgtaaa	gcctggggtg	cctaattgag	gagctaactc	acattaattg	720
cgttgcgctc	actggccgct	tttcagtcng	gaaacctgtc	gtgccagctg	cattaatgaa	780
tcggccaacg	cgccggggaga	ngcngnttgc	gtattggggc	cn		822

<210> 224

<211> 494

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(494)

<223> n = A,T,C or G

<400> 224

cnccttgacnt	gattacgccca	agcttggttac	cgagctcgga	tccctagtaa	cggccgccag	60
tgtgctggaa	ttcgccctta	gcgtggtcgc	ggccgaggta	cttttttttt	tttttttaac	120
caactcaata	tgtgtttgat	gatagtgaat	tgataaaacc	cgaagctttt	ccctgtaaat	180
cttacatctt	tgccctttaa	gaatgggtta	caaccatcac	tagatcacag	tagtgcctaa	240
tgaagggtga	gaaccgtagg	agaggctctc	atgctgtaaa	taatgttgca	ggctaataac	300
ctttcatcac	ttcctttgtg	cgcttcctgc	cttaagtgaac	aagtagcaac	atggcttggg	360
tcccctgtgc	agcatcagct	tatgctgcca	caagtcagtt	tgcaccctag	gtgcccagga	420
gctagtatcc	ttagatcttt	ctatcgctaa	cttaattctc	ttcgttattt	atctgaccct	480
ctaactccat	gtct					494

<210> 225

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 225

gggccttnga	gctgctcgnc	ggccgccagt	gtgatggata	tctgcagaat	tcgcccttcg	60
agcgcccgcc	cgggcaggta	ctttaatttt	gcttggtcaa	atgatctaca	cttacatttt	120
gcaaatcttt	ttttttaaat	tttttaaat	ttatatTTTT	tttccagcca	actcaaggcc	180
aaaaaaaaatt	tcttaataata	gttattatgc	gaggggaggg	gaagcaaagg	agcacaggta	240
gtccacagaa	taagacacaa	gaaacctcaa	gctgtgaggt	caatttgtaa	ttaaaagaat	300
actaagatta	gatgaacaca	acactcagaa	atactctagg	agagctgaaa	aagaaggaac	360
agatgttaac	aaaacaaatt	aaggctgctg	gggaacctga	gtccatgtta	agcttgggtt	420
gactgtaaag	aatttttttt	tttaatgcaa	gttagacatg	gagttagagg	gtcagataaa	480
taacgaagag	aattaagtta	gcgatagaaa	gatctaagga	tactagctcc	tgggcaccta	540
gggtgcaaac	tgacttggtg	cagcataagc	tgatgctgca	caggggaccc	aagccatggt	600
gctacttgct	acttaaggca	ggaagcgcac	aaaggaagtg	atgaaagggt	attagcctgc	660
acattattta	cagcatgaga	gcctctccta	cggttctcaa	ccttcattag	gcctactgtg	720
atctantgat	ggntgtaccc	attcttttaa	ggcaaagatg	taaggattta	cagggaaaag	780
cttcggggtt	tatcaattca	ctatcatcaa	acacatattg	ng		822

<210> 226

<211> 498

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 226

anntaaacta	tgacctgatt	acgccaaactt	ggtaccgagc	tcggatccac	tagtaacggc	60
cgccagtgtg	ctggaattcg	cccttttcgag	cgcccgcccc	ggcagggtacc	ctctcatata	120
tgcaaacaaa	tgacagactag	gcctcaggca	gagactaaag	gacatctctt	ggggtgtcct	180
gaagtgattt	ggacccctga	gggcagacac	ctaagtagga	atcccagtgg	gaagcaaagc	240
cataaggaag	cccaggattc	cttgatgatca	ggaagtgggc	caggaagggtc	tgttccagct	300
cacatctnat	ctgcatgcag	cacggaccgg	atgcgcccac	tgggtcttgg	cttccctccc	360
atcttctcaa	gcagtgtcct	tgttgagcca	tttgcatcct	tggctccagg	tggctccctc	420
agtctggact	ctaccacttg	ggtctccaga	ttttctgtta	cgctcttgtg	ggtcaggata	480
tttctggaag	tcactccg					498

<210> 227

<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 227
gggcctctna agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
cgtggtcgcg gccgaggtac attgatgggc tggagagcag ggtggcagcc tgttctgcac 120
agaaccaaga attacagaaa aaagtccagg agctggagag gcacaacatc tccttggttag 180
ctcagctccg ccagctgcag acgctaattg ctcaaacttc caacaaagct gccagacca 240
gcacttggtg tttgattctt cttttttccc tggctctcat catcctgccc agcttcagtc 300
cattccagag tcgaccagaa gctgggtctg aggattacca gcctcacgga gtgacttcca 360
gaaatatact gaccacaaag gacgtaacag aaaatctgga gaccaagtg gtagagtcca 420
gactgaggga gccacctgga gccaaaggatg caaatggctc aacaaggaca ctgcttgaga 480
agatgggagg gaagccaaga ccagtgggc gcacccggtc cgtgctgcat gcagatgaga 540
tgtgagctgg aacagacctt cctggcccac ttctgatcac aaggaatcct gggcttcctt 600
atggctttgc ttccactggg attcctactt aggtgtctgc cctcaggggt ccaaactact 660
tcaggacacc ccaagagatg tcctttagtc tctgctgagg cctantctgc atttggttgc 720
atatatgaaa aggtacctgc ccgggccggc cgttcnaang gcgaatttca gcacactggc 780
ggncgntact agtggatccc aactcggtag caagc 815

<210> 228
<211> 512
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(512)
<223> n = A,T,C or G

<400> 228
annnnntttn acctannact atgacctgat tacgccaaact tggtagcgag ctccgatcca 60
ctagtaacgg ccgccagtgt gctggaattc gccctttcga gcggccgccc gggcaggtac 120
taggtttgca aaaccaatag catgcacatg tgttgggctg aggttcatgt gtcagagact 180
cagttgtaga aggaactttg aatctggcag gcacttaact gtggctgctc agaactaatg 240
tatctggggc tgcttgagca ggggctgagg tcagaggcag ggagtgagct ctccatcatc 300
cttgactcag acccagctcc gcaggagctc catgggtcatc cctggagctc atgtggagtg 360
caaggtccgg gagtgggggc gctgacagaa acaaatctgg ggggatcagc cagggtcagc 420
aggggacaga gatcatgtct tttagaagaa tgtgggcttc ctgacctata gaagggcagc 480
tgttcacccc ctgcagatga tagcagggat ng 512

<210> 229
<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 229
gggcctnaga gcatgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
cgtggtcgcg gccgaggtac tttttttttt tttttttttt ttcagagata ggttcttact 120
atgctgccct ggctggagtg cagtggcttt cttaggggca atcacagctc actgcagcct 180
ggaactcctg ggctcagcct cctaagtagt tgagactacc aatgcacgcc accatacctg 240
gccttagata cccctgtat cctggaactc actccttata agagacactg aatgtggaag 300

tcttcgcaga	tattaagggc	actgcccagt	tcctgtcttt	gaattattgg	gccaacaaca	360
gaaaggcgct	cctgaggccc	cagatcatcc	ctgctatcat	ctgcaggggg	tgaacagctg	420
cccttctata	ggtcaggaag	cccacattct	tctaaaagac	atgatctctg	tcccctgctg	480
accctggctg	atccccccag	atttgtttct	gtcagcgccc	ccactcccgg	accttgcact	540
ccacatgagc	tccaggggatg	accatggagc	tcctgcgagg	ctgggtctga	gtcaaggatg	600
atggagagct	cactccctgc	ctntgacctc	agcccctgct	caagcagccc	cagatacatt	660
agttctgagc	agcccagtta	agtgcctgcc	agattcaaag	ttccttctac	aactgagtct	720
ctgacacatg	aaccttaagc	ccaacacatg	tgcattgctat	tgggttttgc	aaacctagta	780
cctgnccggg	cgggccgttc	gaaanggcga	attct			815

<210> 230

<211> 502

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(502)

<223> n = A,T,C or G

<400> 230

tnnanctana	cttgacctga	ttacgccaac	ttggtaccga	gctcggatcc	actagtaacg	60
gccgccagtg	tgctggaatt	cgccctttcg	agcggccgcc	cgggcaggta	cacagagatg	120
cggteccagct	gcaggtegtg	gtccccgtgg	taggtgccgg	tggggctgat	gccatgttca	180
tcactgatca	cctcccagaa	cttggcaccg	atctggtagc	cacactgacc	agcctggatg	240
tgcacgattt	ccctcatggg	taaaatttaa	tttttttgcg	cgcctcaagg	tatgtatggg	300
gcaagaaaat	aagtaatttt	ttttctccgc	aggtcgcagg	ctggaagggt	ggaatgcgcc	360
ccagaggctg	gagcagcgag	gtgcaaaccg	gacggcagga	aggttctgag	agccccgcgt	420
acctcggccg	cgaccacgct	aagggcgaat	tctgcagata	tccatcacac	tgcggccgct	480
cgagcatgca	tctagagggc	cc				502

<210> 231

<211> 817

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(817)

<223> n = A,T,C or G

<400> 231

nngggcctct	nnagctgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cggccgaggt	acgcggggct	ctcagaacct	tcctgccgtc	gcgtttgcac	120
ctcgtgctc	cagcctctgg	ggcgcatctc	aaccttccag	cctgcgacct	gcggagaaaa	180
aaaattactt	attttcttgc	cccatacata	ccttgaggcg	agcaaaaaaa	ttaaatttta	240
accatgaggg	aaatcgtgca	catccaggct	ggtcagtgtg	gctaccagat	cggtgccaag	300
ttctgggagg	tgatcagtga	tgaacatggc	atcgacccca	ccggcaccta	ccacggggac	360
agcgacctgc	agctggaccg	catctctgtg	tacctgcccg	ggcggccgct	cgaaagggcg	420
aattccagca	cactggcggc	cgttactagt	ggatccgagc	tcggtaccaa	gcttggcgta	480
atcatggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	ctcacaattc	cacacaacat	540
acgagccgga	agcataaagt	gtaaagcctg	gggtgcctaa	tgagtgaagt	aactcacatt	600
aattgcgttg	cgctcactgc	ccgctttcca	gtcgggaaac	ctgtcgtgcc	agctgcatta	660
atgaatcggc	caacgcgcgg	ggagaggcng	nttgcgtatt	gggcgtctct	ccgcttnctc	720
gctcacttga	ctcgcttgcg	ctcggtcggt	cngcttgccg	cnanccggat	tcagcttact	780
taaaggcggt	aataccggtt	atccaccaga	attangg			817

<210> 232

<211> 481

<212> DNA

<213> Homo Sapien

<400> 232

actatgacct	gattacgcca	agcttggtac	cgagctcggg	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacaaattt	gttgtgtttt	120
ttatgttcta	ataatactga	gacttctagg	tcttaggtta	attttttagga	agatcttgca	180
tgccatcagg	agtaaatttt	attgtgggtc	ttaatctgaa	gttttcaagc	tctgaaattc	240
ataatccgca	gtgtcagatt	acgtagagga	agatcttaca	acattccatg	tcaaattctgt	300
taccatttat	tggcatttag	ttttcattta	agaattgaac	ataattattt	ttattgtagc	360
tatatagcat	gtcagattaa	atcattttaca	acaaaagggg	tgtgaacctt	agactattta	420
aatgtcttat	gagaaaattt	cataaagcca	ttctcttggt	attcaggtcc	agaaacaaat	480
t						481

<210> 233

<211> 809

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(809)

<223> n = A,T,C or G

<400> 233

gggcctctnn	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgccctta	60
gcgtggctgc	ggccgaggta	caaaagatac	tggtcacccc	attagagaac	tgatttgaag	120
ttactcttcc	ctgtgagggc	tctgtcatct	taactgtatt	cacatacttt	caactgttcc	180
ccttgctgct	aacctcaggt	tctttagttc	atctatctgg	cagagctgat	ttggggaaaa	240
caagacaaac	cttgtcaggt	tttcttaata	aataagcagt	tgtcatgttt	caagagtttt	300
agaaatgagc	aataatcaag	gaagaggaca	acgattgcac	acgtttataa	tatttagaac	360
atcttttgcc	acaataaaca	ctggaaacca	cccacttggt	gacaccaaac	atttggattt	420
gtatattttg	tggcattccc	tcactctaata	cctctcatcc	ttaaaaaatt	tcagaaattt	480
ttgcagcaac	aaacactgat	tgcaacatat	gatttagggg	agatttatga	accatttttt	540
cactgaaata	catcaacagg	agtgagtagt	ctgagtgaac	acccagcat	ggagaaaact	600
gtagtttaca	gattcttctg	gagcattttt	atttctagat	tgcagtggaa	gtctaacccc	660
ccttgagat	gtctgcctta	aagggtcttt	ggccaggggt	ctctgtagag	ccatagtcca	720
gatctactct	atttgngtgc	tccttacaac	atcagaacag	caactctcaa	tccggatcat	780
cccagaatgc	cgctgagtca	cagcgtggg				809

<210> 234

<211> 482

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(482)

<223> n = A,T,C or G

<400> 234

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tcgagcggcc	gcccgggcag	gtactgaaaa	gaagatagtg	120
ccatttgaaa	caacagatgc	atcttttata	cattttcaca	agttngtttt	tcataatttt	180
aaaggcccca	tttatctgta	acagtggtat	ttttatttag	agtatcggct	acttaataata	240
tacatgcaac	aatatatgct	ttaatagtca	tttaactttt	angaatatatt	catnacatta	300
agtgggtaag	catagcggtt	aaagagtggg	atataaggaa	tannaanntn	tngaaaatac	360
gctgctannt	tcattngcan	actatagtag	aatggagatg	cccataaaag	tgatcattgc	420
ccaactgaat	tcctaccng	aactaacatg	tgattctcaa	gtgggganaa	atattattaa	480
aa						482

<210> 235

<211> 474

<212> DNA

<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(474)
<223> n = A,T,C or G

<400> 235
acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgcccag 60
tgtgctggaa ttcgccctta gcgtggtcgc ggccgaggta cactacttgg tgtaacatt 120
gttggcagtg gtagccctt ttcagaaagc aacttgctgt aagtcagggt gtccgttcca 180
accttcagct agtgaaaagg tagtaacaaa tggtaaacia gagaatgatt gtttaaacct 240
atctgtggac acttaatgca actgtttaaa aatgataatc acgagttatg tagcaacgtg 300
gaaatatatt tacagaacat taatggagaa gcagggacac gaagtatatt atactacagt 360
tataactcaa cagtcattat atgccgggtca tttaccagtc atttaaccag ttcattataa 420
ctgtttaaaa atatatatgc ttatagtcaa aagctgttgt ggtgttggtg ttgn 474

<210> 236
<211> 819
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(819)
<223> n = A,T,C or G

<400> 236
gggccttnna gctgctcgnc ggccgcccagt gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccgggcagggt actttttttt tttttttttt tttttatttt taactttatt 120
tttattgntg acactattac agatagaatg accacaacca tattaacaaa ccaaaaacct 180
gtgcacagaa acaagatgaa gaaaatatat caagatgtta aacacactct ttggatgggtg 240
aaaacatggg tgagtttctc ttctacattt ctgtaacttc aaagtttcta taatgaacac 300
atttcatata taatggaaat atatgtagta aaggtggact accaaaacac tagaatgatg 360
acctttcaag gaaaccgaaa caaaataacc ataatcccac aacaaccaca caactatttc 420
ttgnttttca tctttcttcc catctttgac atttatgcat acttatcact aacaccctaa 480
taatcacaga ctagtgcaca gatcaagatg ttaacagtta attgttggtg ggtgttgagg 540
atatgtgtga attttcttta ctgaatttcc aaagttttgt atgagtatgt attatatattg 600
taatggaaaa tacatacata aaatttatta ccaaaacacc aaagattatt taagggaatt 660
tgagacaaaa tatttaacca aattcccaca atgacaacac tatttttagtt attttccaca 720
tcttttcatt taagacttta tgcacacata ttttaacactg gtatcacaaag cgtgggcact 780
gaaacaagga tnganggaac nggatcagga tgtagccg 819

<210> 237
<211> 483
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(483)
<223> n = A,T,C or G

<400> 237
agcttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt agcgtggtcg cggccgagggt actaagctca gcatgtctca 120
tgggtcaatta ctgcgtattt ccaaaaaaatg tgttggttgg tcttgagaaa attcttttagc 180
cccttgacac cagaattatc tccactgtag aaaaaataga caattatagt ctaacaggta 240
aatcacaaaa attcttcagc cacacttcct ggggttcaaat gtgggttttc tactcagtaa 300
tattgtaacc ctgggcaagt tatttaactt gtctaagtct cagtttctcc atctgtaaaa 360
tgaggataat cacaatatct actacataat gttcttctga agatgtaatg agataatcca 420
tgtnaaatat tcanacagca cataggaatg ggtcatttaa tgtttatcat tacttgccta 480
ttt 483

<210> 238
<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 238
gggccentnn agctgctcgn cggccgccag tgtgatggat atctgcagaa ttccgcccttt 60
cgagcggccg cccgggcagg taccattatt ttccattcaa taccatattgt ctgaaaaata 120
ggcaagtaat gataaacatt aaatgaccca ttccctatgtg ctgtctgaat attttacatg 180
gattatctca ttacatcttc agaagaacat tatgtagtag atattgtgat tatcctcatt 240
ttacagatgg agaaactgag acttagacaa gttaaataac ttgcccaggg ttacaatatt 300
actgagtaga aaaaccacat ttgaaccag gaagtgtggc tgaagaattt ttgtgattta 360
cctgttagac tataattgtc tattttttct acagtggaga taattctggg gtcaaggggc 420
taaagaattt tctcaagacc aaacaacaca ttttttggaa atacgcagta attgaccatg 480
agacatgctg agcttagtac ctccggcccg accacgctaa gggcgaattc cagcacactg 540
gcggccgtta ctagtggatc cgagctcggt accaagcttg gcgtaatcat ggtcatagct 600
gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat 660
aaagtgtaaa gcctgggggtg cctaattgagt gagctaactc acattaattg cgttgcgctc 720
actgnccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggncaacg 780
cgccggggag aggcngnttg cgtattgggc gctct 815

<210> 239
<211> 483
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(483)
<223> n = A,T,C or G

<400> 239
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt agcgtggctg cggccgaggt actttttttt tttttttttt 120
ttttttttta gcgagcaagt atggnattat acggacaaat ggtagaaaaa tggtactaat 180
atccatagat aagttcctta agtcatgtag agagactgtt attaaaagt ttgctgcattt 240
ttctattgaa tcaagaacta gctaccagtt acagtgcctt ctaaacacac agttagcttt 300
gctttatcaa taaccaaata ataaactagg tcccaatggg tttgtccaca tntagattgt 360
tcaggtgatc aggaactctt ttattttgtg gcttttagctt ttagttcttg gttatatctc 420
caaatacgaa aaagctgaga ggctcctact gccccacaa agaaattaac agcaaacaga 480
ctt 483

<210> 240
<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 240
gggcctntna gctgctcgac ggccgccatg tgatggatat ctgcagaatt cgcccttttcg 60
agcggccgcc cgggcaggta caaccatcca gcaggtecca gaacagtttt cttctgggct 120
ccaattatga aatgggggtt ggtgtgtgct ggattggctg atatggccag acctgcagaa 180

aaacttagca	cagctcaatc	tgctgttttg	atggctacag	ggtttatttg	gtcaagatac	240
tcacttgtaa	ttattccaaa	aaattggagt	ctgtttgctg	ttaatttctt	tgtgggggca	300
gtaggagcct	ctcagctttt	tcgtatttgg	agatataacc	aagaactaaa	agctaaagca	360
cacaaataaa	agagttcctg	atcacctgaa	caatctagat	gtggacaaaa	ccattgggac	420
ctagtattat	atttggttat	tgataaagca	aagctaactg	tgtgtttaga	aggcactgta	480
actggtagct	agttcttgat	tcaatagaaa	aatgcagcaa	acttttaata	acagtctctc	540
tacatgactt	aaggaactta	tctatggata	ttagtaacat	ttttctacca	tttgtccgta	600
ataaaccata	cttgctcgct	aaaaaaaaaa	aannnnnaaa	aaaaaaagta	cctcggccgc	660
gaccacgcta	aggcggaatt	ccagcacact	ggcggccggt	actagtggat	ccgagctcgg	720
taccaagctt	ggcgtaatca	tgggtcatag	ctggttcctg	tgtgaaatgg	tatccgntca	780
caattncaca	caacatacga	accggaagcc	ttaag			815

<210> 241
 <211> 486
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(486)
 <223> n = A,T,C or G

<400> 241						
agctatgacc	atgattacgc	caagcttggt	accgagctcg	gatccactag	taacggccgc	60
cagtgtgctg	gaattcgccc	ttagcggccg	cccgggcagg	tacttcccac	cactggaaat	120
gtagcataa	aagaacttgg	agaggaaaaa	agtattaaca	aaactgcagt	ctgcactctt	180
taaacctgtt	taaggctctt	catcctgggt	agcaaaaagg	gtgaatgtaa	tgtgatggaa	240
tttaaaagtt	ttatgagacc	aggcacagt	gctcacgact	gtaattccag	cagttagga	300
agccgaagt	tgcagatcac	ctgagggtcc	gagaccagcc	tggccaacat	ggtgaaaccc	360
tgtctctact	agaaatacaa	aaattagcca	ggtgtggtgg	cgggcgcctg	taatcccaac	420
tactcaggag	gctgaggcta	gagaatcact	tgaacccagc	angcggaggt	tgcggtgagt	480
cganat						486

<210> 242
 <211> 481
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(481)
 <223> n = A,T,C or G

<400> 242						
anttgacctg	attacgccaa	gcttggtacc	gagctcggat	ccctagtaac	ggccgccagt	60
gtgctggaat	tcgcccttcg	agcggccgcc	cgggcaggta	catcagtgtt	cattttatta	120
tttcttacac	tgtcttcacg	acttacacat	aatattttgc	tagttttaaa	acataagatg	180
tgataataat	ctaaacagac	caaaggaaat	aaatgaatat	gattaaaaaa	agacagagaa	240
taagccctgt	ctgatggaaa	gcataacaaa	gcaggtagaa	caactgtcag	gaatgcttga	300
tccaataaag	ctagggtttg	gatccacaac	acttcagcat	tttaatgtga	tttttgatgt	360
tngctttttg	caatggtgat	tctcagttgc	ctccctcctg	tgtctttaca	agctgaaatc	420
aagtgaagct	acttctgact	ttttctaaaa	cttaaaccce	acatgaaggt	ctgcgtattc	480
t						481

<210> 243
 <211> 824
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(824)

<223> n = A,T,C or G

<400> 243

cnannngggcc	tntnnagcat	gctcgacggc	cgccatgtga	tggatatctg	cagaattcgc	60
ccttagcgtg	gtcgcggccg	aggtacataa	tacttttagat	aaacattttt	agaataactt	120
tattataact	cgataagcaa	aataatccaa	acctttatac	atttctacaa	ggatagtcac	180
atatgtcaat	tttctgggtt	cctctcgtgc	ctattttgtc	tcctgagccg	gcccccttcc	240
agctgacacg	tgtgctccgt	gttctcccac	aatagtgtga	cctggcctga	gtccatgccg	300
ccgtgagcct	cctttctgtg	cttacaacag	cagcctgcct	gatgtcagtt	atggactatt	360
ctttctttca	gcctcatttc	agggtcctct	gcctcttaga	gctgctgctg	tagcttagct	420
agagaccgcg	tgctgttgca	tcattgaaaa	gtgccacata	cgtgcacatg	tgaaagaata	480
cgagaccctt	catgttgggt	ttaagtttta	gaaaaagtca	gaagtagctt	cacttgattt	540
cagcttgtaa	agacacagga	gggaggcaac	tgagaatcac	cattgcaaaa	agcaaacatc	600
aaaaatcaca	ttaaaatgct	gaagtgttgt	ggatcacaaa	cctagcttta	ttggatcaag	660
cattcctgac	agttgttcta	cctgcttttg	ttatgctttc	catcagacag	ggcttattct	720
ctgtcttttt	taatcatatt	catttatttc	ctttgggtctg	tttagattat	tatcacatct	780
tatgttttaa	aactagcaaa	atattatgtg	taagtcatga	agnt		824

<210> 244

<211> 483

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(483)

<223> n = A,T,C or G

<400> 244

actatgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccccgc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgccccggga	ggtacgcggg	ggcagggtgt	120
ttaatcgctg	ccaagcggga	cttactgcaa	gctatcaaat	ctgaggtctt	attttgttga	180
gtcgaaagtg	aaattttcct	ttggccaacg	tgacagggct	ttgtttggtg	gtaaaaaggg	240
ttactagaca	ccccctattc	cactgccact	ggagggcgca	tttctcagct	cttgctcttc	300
aaacctgctg	aaaggaattc	ctagatctaa	acaccagcat	ttgacattgt	gcagcaaana	360
aatggttatg	ganaagccca	gtccgctgct	tgtanggcgg	gagtttgtga	ggcaatatta	420
tactttgctg	aataaagctc	cggaatattt	acacagggtt	tatggcagga	attcttccta	480
tgt						483

<210> 245

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 245

ttggggccnt	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcgggccgagg	tacttcccct	cgaaacataa	tcggttttgc	aattaagatt	120
ctctgaactg	gttcagagtc	atcaaaaacc	acaaaaccaa	aatttggaag	ctttccccca	180
acacccttgg	tattgatgcy	aagttccaca	acgtttccaa	aactcatgaa	gaattccttt	240
agctcatttt	catcaatatc	atgtggcaag	ttaccaacaa	aaagttgatg	actatctgga	300
tagcgaatta	ttctacgggt	gtcagagtca	ttctgttcca	tatctcctct	gcctgggtctt	360
ggctctctag	gaggaaaacc	aggctcgtct	ctaggtcgtt	gttcacgcac	acgaggtggc	420
tgagattgaa	cttctgggtt	agcttcgact	cttggtcttg	gtggttcttg	tggcagagaa	480
acaggttctg	ccggaggagg	agtagtagat	ttctcctcta	gttcttctaa	gttcttctcc	540
tccacttggtg	gtttcagctc	ttcagtcctt	gtttcagatt	ctggctcagg	ttcaggttca	600
tgagaggatt	cttccaaagg	ctcctctatg	ccattagtca	cagggtgagc	ttcatagtaa	660
ccactgtag	cattttcttg	cacagggtca	ggagatgggt	gnctttcttc	ttggtcctct	720

tctacttcat cttctgattc ttcatacaaag ttcangctca gaatcaccaa acacttnatc 780
ttcataacga aacatatcat tgtgaacata aaattttattt gg 822

<210> 246
<211> 482
<212> DNA
<213> Homo Sapien

<400> 246
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt agcgtggtcg cggccgaggt actttttttt tttttttttt 120
aaccaactca atatgtgttt gatgatagtg aattgataaa acccgaagct ttccctgtga 180
aatcttacat ctttgccctt aaagaatggg ttacaacccat cactagatca cagtagtgcc 240
taatgaagg tgaagaaccgt aggagaggct ctcattgctgt aaataatgtt gcaggctaata 300
aacctttcat cacttccttt gtgcgcttcc tgccttaagt gacaagtagc aacatggctt 360
gggtcccttg tgcagcatca gcttatgctg ccacaagtca gtttgcaccc taggtgcca 420
ggagctagta tccttagatc tttctatcgc taacttaatt ctcttcgtta tttatctgac 480
cc 482

<210> 247
<211> 816
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 247
gggccttnga gctgctcgan cggccgccat gtgatggata tctgcagaat tcgccccttc 60
gagcggccgc ccgggcaggt actttaattt tgcttggtca aatgatctac acttacattt 120
tgcaaatctt ttttttaaat tttttaaat ttatatattt tttccagcca actcaaggcc 180
aaaaaaaaatt tcttaatatata gttattatgc gaggggaggg gaagcaaagg agcacaggta 240
gtccacagaa taagacacaa gaaacctcaa gctgtgaggt caatttgtaa ttaaaagaat 300
actaagatta gatgaacaca aactcagaa atactctagg agggctgaaa aagaaggaaac 360
agatgttaac aaaacaaatt aaggctgctg gggaacctga gtccatgtta agcttggtt 420
gactgtaaag aatttttttt tttttaatgc aagttagaca tggagttaga gggtcagata 480
aataacgaag agaattaagt tagcgataga aagatctaag gatactagct cctgggcacc 540
tagggtgcaa actgacttgt ggcagcataa gctgatgctg cacaggggac ccaagccatg 600
ttgctacttg tcacttaagg caggaagcgc acaaagggaag tgatgaaagg ttattagcct 660
gcaacattat ttacagcatg agagcctctc ctacgggtct caaccttcat taggcactac 720
tgngatctag tgatggttgt acccattctt taaaggcaaa gatgtaagat ttacagggaa 780
aagcttcggg ttttatcaat cctatcatca acacng 816

<210> 248
<211> 482
<212> DNA
<213> Homo Sapien

<400> 248
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtactctttg ggcattaatg 120
ccttctctgt aattatatct cgtttttgct tggcagtgac ctaccagta attgcatcgt 180
gtattgccat gaaaggtaaa cacattgtga actgaactta ccaagcagat tctgtgagaa 240
agcactgggt ggggctgaac actgttgaca catcattttt attggaagag tattaactgg 300
tgctctttct gaaacacacc aacctatatt cctctgctcc cccaaagctg tttctgatcc 360
tgctgggagc aactaactag ttattatgca catctgctcc agaccagct ctttaacttc 420
atggttttac agcttggttt ttctttttct tttcttttct ttttttttaa aaaagcacct 480
tt 482

<210> 249

<211> 821
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(821)
<223> n = A,T,C or G

<400> 249
ggcctctnag ctgctcgacg gccgccatgt gatggatata tgcagaattc gcccttagcg 60
tggtcgcggc cgaggtactt tatgaatttg gggtaggtaa agtttgtatt ttatcttaaa 120
catgttttct atgatgaaaa ggaacaaaat tgtaaaaaat gaggatcttc cctctaaagg 180
tttcaaagcg ttagaggaca tgcaattaaa tgttggttaca ccttgaacaa tgagcctctt 240
gagtttgtag gaagggcaga ccggctccat taccaacaac tttggggtag aaagcacagc 300
tctcctcttt taccagcac aaatgcaatc ctgattataa aactatttgt gtttctaaat 360
acaaccaaag gaaatcttag agaaacataa attagaaacc tcttttatta aggggaaaca 420
acaaaaaag gtgctttttt aaaaaaaaag aaaagaaaag aaaaagaaaa aacaagctgt 480
aaaaccatga agttaagag ctgggtctgg agcagatgtg cataataact agttagttgc 540
tcccagcagg atcagaaaca gctttggggg agcagaggaa tatgggttg tgtgtttcag 600
aagaggcacc agttaatact cttccaataa aaatgatgtg tcaacagtgt tcagcccaa 660
ccagtgtttt ctcacagaat ctgcttggtg agttcagttc acaatgtgtt tacctttcat 720
ggcaatacac gatgcaatta ctgggttaggt cactgccaaag caaaaaccga agatntaatt 780
tcccgagaag gcattaatgc ccaaagagta cctgccccgg n 821

<210> 250
<211> 481
<212> DNA
<213> Homo Sapien

<400> 250
acttgacctg attacgccaa gcttgggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttcgccctta gcgtggctcg gcccgaggta caacattgat gttttaatat 120
agaatgaagt gcttgctaca cagtcaagta aatcaacata tccattacca cacacacttt 180
tcttttctga ggagcggtaa gagtacttta attttgcagt tattgattaa ttaaaaaaca 240
cagttgtttt cagcatttcc tagttacagt agtgcataag aaattccatt ctaaacaag 300
aagtaattaa tgaaataaca acacacctta acattttaca ttgatagggt acagtttaca 360
aggtgctttc acatacatta tttcatttga ttcttacaac aagcagaaaa aacagtggga 420
aagatttttt ttttcaggct tacaatgagt attttcaggc caatgggcag ttaacacaag 480
g 481

<210> 251
<211> 803
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(803)
<223> n = A,T,C or G

<400> 251
gggccttnna gctgctcgnc ggccgccagt gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccggcaggta cactaaatta gaatatTTTT aaagtatgta acattcccag 120
tttcagccac aatttagcca agaataagat aaaaacttga ataagaagta agtagcataa 180
atcagtattt aacctaaaat tacatatTTG aaacagaaga tattatgtta tgctcagtaa 240
ataattaaga gatggcattg tgtaagaagg agccctagac tgaaagtcaa gacatctgaa 300
tttcaggctg gaaaactatc agtatgatct cagcctcagt tctcttgtct gtaaaatgga 360
agaactggat taggcagttt gtaagattcc tcctaacttt cacagtcgat gacaagattg 420
tctttttatc tgatatTTTG aagggtatat tgctttgaag taagtctcaa taaggcaata 480
tatttttaggg catctttctt cttatctctg acagtgttct taaaattatt tgaatatcat 540
aagagccttg gtgtctgtcc taattccttt ctactcacc gatgctgaat acccagttga 600

atcaaactgt	caacctacca	aaaacgatat	tgtggcttat	gggtattgct	gtctcattct	660
tggtatatcc	ttgtgttaac	tgcccatggc	ctgaaaatac	tcattgtaag	cctgaaaaaa	720
aaaatctttc	ccactggttt	ttctgcttgg	tgtaagaatc	aaatgaaata	tggtatgtgaa	780
agcccttgta	actgtaccta	tcn				803

<210> 252
<211> 500
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

<400> 252	
tacnccaann	60
tttgacctga	120
ttacgccaaag	180
cttggtaccg	240
agctcggatc	300
cactagtaac	360
ggccgccagt	420
gtgctggaat	480
tcgcccttag	500
cgtggctcgcg	
gccgaggtag	
agatgaaaag	
aagtgggtgt	
aatgacctac	
ctgcaccgat	
aataaagcaa	
atagaatgat	
tatatacatt	
aagatcagct	
tgattaaaaa	
ttaaattttat	
atgcaggtaa	
attgatcatt	
aaaatgaacc	
cagtttaact	
cttctcgtgt	
gttgttttaa	
ggtaggccac	
tgaaacgcag	
agataaaatc	
anatggggaa	
aattaaaagc	
naagaaaaaa	
attacaaaac	
aagtgggtta	
agccatggat	
tcttaaccaa	
accctggact	
aaatgtgcca	
aagtgccttg	
aaaatttcca	
ctgccagcna	
tggnatggtaa	
agtcantttg	
gcaaaaaaaa	
ggtgggtnga	
aaaaaaactn	
acctttttaa	
ttccacctt	
ggatctggcn	

<210> 253
<211> 831
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(831)
<223> n = A,T,C or G

<400> 253	
gnnnnnnnnn	60
gnnnnnnnnn	120
ntttnnantg	180
ggcctctnna	240
gcattgctga	300
cggccgccat	360
gtgatggata	420
tctgcagaat	480
tcgccctttc	540
gagcggccgc	600
ccgggcaggt	660
actatatttg	720
tgagcctagg	780
gtaggggcac	831
tgctgcaact	
tctgctttca	
tcccatgcct	
catcaatgag	
gaaagggaa	
aaagtgtata	
aaactgccac	
aattgtatct	
taattttgag	
gtatgatatt	
ttcagatatt	
tcataatttc	
taacctctgt	
tctctcagta	
aacagaatgt	
ctgatcgatc	
atgcagatac	
aatgtttggt	
tttgagaggt	
tagttttttt	
tcctacactt	
ttttttgcca	
actgacttaa	
caacattgct	
gtcagggtga	
aattttcaag	
acttttgcac	
atttagttca	
gtgtttgttg	
agaatccatg	
gcttaaccca	
cttggtttgc	
tatttttttc	
tttgctttta	
attttcccca	
tctgatttta	
tctctgcgtt	
tcagtggcct	
accttaaaac	
aacacacgag	
aagagttaaa	
ctgggttcat	
tttaattgat	
aattttacct	
catataaaat	
ttatttttaa	
tcaagctgat	
cttaattgat	
ataatcattc	
tattttgctt	
attatcgggt	
caggtaggtc	
attaacacca	
cttcttttca	
tctgtacctc	
ggccgcgacc	
acgctaaggg	
cgaattccag	
cacactggcg	
gcccgttact	
agtggatccg	
agctcggtag	
caagcttggc	
gtaatcatgg	
gtcatagctg	
tttcctgtgt	
gaaattggta	
tccgntcaca	
attcccacan	
g	

<210> 254
<211> 514
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(514)
<223> n = A,T,C or G

<400> 254
cacttgacnt gatcgccaac ttggtaccga cntcgnntcc attattaccg gacacttgac 60
tgatacgcca ncttgggtacc gactcggacc actagtaacg gncgccagtg tgctggaatt 120
cgcccttgag cgcccgcccg ggcaggtacc tctaataaat ttaagctaatt 180
tatttatgct acctgtgctg tgggtggttc ctatcagcag ccaaataata cctcacagtt 240
gttttgctgt ttttgctttc acaaaagagc tattaaccaa cttaaaaatg ttttttgatt 300
gaaggatgct taggggatga gaggatatca acaatataag cccatgccaa atccccattt 360
cttatcatta aaactgacct gacattaaag caatgcttaa ttttttacca taagagtga 420
atattgagat tataatttta aagtgtaaaa tatttact taaattacac ttataatttt 480
aaagtgtata atatttacac agattaaaat aaaa 514

<210> 255
<211> 830
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(830)
<223> n = A,T,C or G

<400> 255
nnnnnnngncn nnnnnnannnn nnnnnnnant gggcctctnn agcntgctcg acggccgcca 60
tgtgatggat atctgcagaa ttcgccctta gcgtgggtcg ggcgaggta cttttttttt 120
ttttccagat gaagtcttgc tctgttgccc aggcgtggagc gcagtggcac aatctcagct 180
cactgaaacc ttcgccccct gggctcaagc tagccagtct tttagtaaac atttagtcaa 240
caaactctgca attataacgg aggtttgatt tttgttggtt ttgtttggtt ttaagtcact 300
ctgtgtttgt aatatcaatt tacttttcaa gtttagaatg ttttgcttca ttgtttccca 360
tattttattt taatctgtgt aaatattata cactttaaaa ttataagtgt aatttaagt 420
taaatatttt acactttaaa attataatct caaaatttca ctcttatggg aaaaaattaa 480
gcattgcttt aatgtcaggt cagttttaat gataagaaat ggggatttgg catgggctta 540
tattgttgat atcctctcat cccctaagca tccttcaatc aaaaaacatt ttttaagttg 600
ttaatagctc ttttgtgaaa gcaaaaacag caaaacaact gtgagggtat atttggtgc 660
tgataggaaa ccaccacagc acaggtagca taaataatta gcttaaattt attagcctgc 720
attagaggta cctgcccggg cnggccgtca agggcggaatt ccagcacact ggcggccggt 780
ctagtggatc cgactcggtc cagcttgctg aatcatggtc atagctgttg 830

<210> 256
<211> 524
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(524)
<223> n = A,T,C or G

<400> 256
cnnnnnnnna ncntnanacn nnnnnntngn nnnnnnagnnn nnnnnnnnnnn nnnnnnnnan 60
actatgactg attacgcan cttgggtaccg actcggatcc actagtaacg gccgccagtg 120
tgctggaatt cgcccttagc gtgggtcgcg ccgaggtaca ttacttggtg ttaacattgt 180
tggcagtggg agcccctttt cagaaagcaa cttgctgtaa gtcagggtgt ccgttccaac 240
cttcagccag tgaaaaggta gtaacaaatg gtaaacaaaga gaatgattgt ttaaacctat 300
ctgtggacac ttaatgcaac tgtttaaaaa tgataatcac gagttatgta gcaacgtgga 360
aatatattta cagaacatta agtggagaaa gcaggacacg aaagtatatt tatactacag 420
ttataactca acagttcatt tatatgctgn tcatttaaca gttcatttaa acagttcatt 480
ataactgttt aaaaatatat atgcttatag tcaaaagctg ttgg 524

<210> 257
<211> 814
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

<400> 257
ntgggcctct agaagcatgc tcgagcggcc gccagtgtga tggatatctg cagaattcgc 60
ccttgagcgg ccgcccgggc aggtactttt tttttttttt tttttttttt tttgatattt 120
atttttaact ttatttttat tgntgacact attacagata gaatgaccac aaccatatta 180
acaaacaaa aacctgtgca cagaaacaag atgaagaaaa tatatcaaga tgtaaccac 240
actctttgga tggtgaaaac atgggtgagt ttctcttcta catttctgta acttcaaagt 300
ttctataatg aacacatttc atatataatg gaaatatatg tagtaaagggt ggactaccaa 360
aacactagaa tgatgacctt tcaaggaaac cgaaacaaaa taaccataat cccacaacaa 420
ccacacaact atttcttgct tttcatcttt cttcccatct ttgacattta tgcatactta 480
tcactaacac cctaataatc acagactagt gcacagatca agatgttaac agttaattgt 540
tggtgggtgt tgggaatatg tgtgaatttt ctttactgaa tttccaaagt tttgtatgag 600
tatgtattat atttgtaatg gaaaatacat acataaaaatt tattaccaa acaccaaaga 660
ttatttaagg aatttgagac aaaatattta accaaattcc cacaatgaca acactatttt 720
agttattttc cacatctttt catttaaaga ctttatgcac acatatttaa cactgntatc 780
acaagcgtgt gcactgnaac aggattgagg aaan 814

<210> 258
<211> 474
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(474)
<223> n = A,T,C or G

<400> 258
acagctatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
ccagtgtgct ggaattcgcc cttagcgtgg tcgcggncga ngtagattat ttggaggact 120
taaaatctgn atgtggacat ggtcccaact tantgtccgt taactagtta tccaaattgt 180
aanagctaca gaaagcccag ttgaggggta antgtgcctg gntcacacag cctgcaccct 240
gtcacctcgg caatgagcca gtgtggggca ctggggactt ctaacccttg gattgctctt 300
tttgacctgt gcataccttc taattgnaaa atatatttca gaccgagagt acntgcccgg 360
gcggccnctc aaaagggcga attctgcaaa tatccatcac atggcggccg ntngagcatg 420
catctaggag ggcncaatc ccctatagn agtngtatta caattcactg gcnc 474

<210> 259
<211> 809
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(809)
<223> n = A,T,C or G

<400> 259
ntgggcccct agangcatgc tcgncggccg ccatgtgatg gatattctgca gaattcgccc 60
tttcgagcgg ccgcccgggc aggtactcac ggtctgaaat atattttaca attagaagggt 120
atgcacaggt caaaaagagc aatccaaggg ttagaagtcc ccagtgcgcc acactggctc 180
attgccgagg tgacagggtg caggctgtgt gagccaggca cacttaccct tcaactgggc 240
ttctgtagct ttacaatttg gataactagt tagcggacag tagttgggac atgtcacata 300
cagatttgag tcctccaata atgtacctcg gccgcgacca cgctaagggc gaattccagc 360
acactggcgg ccgttactag tggatccgag ctcggtacca agcttggcgt aatcatgggtc 420
atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg 480
aagcataaag tgtaaagcct ggggtgccta atgagtgagc taactcacat taattgcgtt 540

gcgctcactg	cccgccttcc	agtcgggaaa	cctgtcgtgc	cagctgcatt	aatgaatcgg	600
ccaacgcgcg	gggagaggcg	gtttgcgtat	tgggcgctct	tccgcttcct	cgctcactga	660
ctcgtgcgc	tcggtcgttc	ggctgcggcg	agcggtatca	gctactcaaa	ggcggtaata	720
ccgttatnca	cagaatcang	ggatacgag	gaaagaacat	gtgagcaaaa	ngccacaaaa	780
ggccaggaac	cgtaaaaagg	ccgcgcttg				809

<210> 260
<211> 713
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G

ctcttttaaac	gccagctcga	ntccganntc	tatccntgac	aannnnngtn	ccggncctgga	60
atcgncctt	tcgagcggcc	gcccgggcag	gtacttgagt	tcagggcat	ctctcccgcc	120
gcctctcagc	ctatctgcac	catgtctcac	acgttcagtt	gcagctctta	ccgttttgaa	180
ggcgcacgtg	ggcaagaagt	cctgggcagc	acaagaaagt	caatcacgtt	gagacagaga	240
gagcaggaga	ggaagtgggc	cccagtagaa	gtgggcgaga	gagcgttggg	tgggaacgtg	300
gcacgagaga	gagaaattat	gagattgaga	gagagagaga	gagagagaga	gagagagaga	360
gaaagagana	ganagaggga	aaganaaaga	gacagagaaa	agaaactatt	gttggttaaa	420
atgccagcgg	aaagtccatg	ggggtgaatg	agtccggcaa	tggncangga	gttagcagct	480
tggcgtagtg	tctttcactg	ntttggctgt	cttgagaata	gcattcnacn	ccgactgtgg	540
ttccccanca	gacttttagnc	ngttgccng	ncttgaattg	ccggaccaag	gttaacatag	600
gcttttcggg	tctnaatatt	tttggggctn	gaatantcgg	aaccttttgg	gctggggccat	660
ttacccgntn	cnnentgggt	nnnacatttt	tnctggntaa	tcccgccttt	tng	713

<210> 261
<211> 722
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(722)
<223> n = A,T,C or G

acgcanttag	gtaccgagct	cggatcccta	gtaacggccg	ccagtgtgct	ggaattcgcc	60
cttagcgtgg	tcgcggcccg	aggtactcct	cagccatgcc	gaaggctctc	ttccgggact	120
cttcgatggc	agacagcagg	gcattgtcct	tctcattctt	caggaagccc	tgcagctctt	180
aaattttaagg	agttacagaa	cggtcgatgc	tgncgatcac	tgcagctctt	ccaaaccttc	240
ttatatgaga	tgagctctgt	cggaaccagt	gctcaagttt	ttcccacccc	aaactgcctg	300
aattgaggga	tgggggtggg	gagaaggaca	gagagaagag	aaaaagagag	aaagaagana	360
aaggaaaaga	acaacccttc	tgcaagtgtc	gatgtgactg	aagcactaaa	gagtcaaatt	420
aaacaatgaa	gattgcaggg	tccctttaaa	aagggtgcac	tgcagncccc	ngagcacanc	480
natcccatte	gnttgngccg	ctncacanat	tctagagaan	tcnccatca	tgtttgaaan	540
gcncaaaant	gatgggannt	cccgnntacg	cggggactta	attctgcctt	gggaaatcaa	600
ggaanacttt	gnttggangc	ggcanttnaa	anntggcctt	aagaangnng	tgngaatttg	660
ttggccaaac	nantngaaag	gtnttccggc	cgatnggtcc	ctgattttta	aggatttnaa	720
ng						722

<210> 262
<211> 705
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature

<222> (1)...(705)

<223> n = A,T,C or G

<400> 262

acgctttaa	cncagcttg	gtaccgagct	cggatcccta	gtaacggccg	ccagtgtgct	60
ggaattcgcc	cttgccgccc	gggcagggtac	ctgatatttt	gaacttttaa	ttgctatcaa	120
atttcagctc	tggttttatg	cattgttgta	atttctcagt	gaatcccagt	gcttctttcc	180
ttcttgaaaa	atgccatttc	gcccaggcgc	ggtggctcat	gcttgtaatc	ccagcacttt	240
ggtaggccga	ggtgggtgga	tcagctgagg	tctgtagtte	aagaccagcc	tggctaaca	300
gatgaaaccc	tgtctctacc	aaaaatacaa	aaaaaaacta	gccaggcatg	gtgttgatg	360
cctgtaatcc	cagctactca	ggaggctgag	acaggagaat	cgcttgaacc	tgggagggtg	420
aggttgcagt	gagccaagat	cgcgccactg	cactncaacc	tgggcaacag	agtgagactc	480
catctcaaaa	naannaaaaa	ggaaaatgcc	atttcttggg	cccantgcca	atatgcacca	540
agaatgttng	taggaactac	tttgggtctg	ctgcagaagt	tcttaatcta	gcattaaaaa	600
tccaacggtt	gatttgatct	cttaaaaatg	ttttcnnant	ttgganctga	aattgagnat	660
aaattacctt	tgcnntnaa	ttcaaaaangt	tnaacctnnt	tnann		705

<210> 263

<211> 656

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(656)

<223> n = A,T,C or G

<400> 263

acncgcttgt	accgagctcg	gatccctagt	aacggccgcc	agtgtgctgg	aattcgccct	60
tagcgtggtc	gcggcccag	gtaccgcggg	ggagaacgcc	agggagctgt	gagagtgtgc	120
agtcgcgttc	ctgctgtccg	gacacttttt	tcctctactg	agactcatct	ggtagatccg	180
caggccagtc	ctcccagggg	ctgaagttgt	gaaatatggg	ttttctaaga	agattaatct	240
atcggcgtag	accaatgac	tatgtagaat	cttctgagga	gtccagtgat	gagcaacctg	300
acgaagtgga	atcaccaact	caaagtcagg	attctacacc	tgctgaagag	agagaggatg	360
agggagcatc	tgcagctcaa	gggcaggagc	ctgaagctga	tagccaggaa	ctggttcagc	420
caaagactgg	gtgtgagctt	ggagatggtc	ctgataccaa	gagggnttgc	ctgcgaaatg	480
aagagcagat	gaaactgccc	gnagaaggcc	agacctgann	cgatagcagg	acagttcccc	540
gaaactgggtg	tagcgcgaat	gtctgtgtca	gagtggcctg	ccaatcaagg	agtgaaccct	600
gggaataagc	atccagctta	aagannccct	ganggttagt	gtctngtgaa	ttncct	656

<210> 264

<211> 752

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(752)

<223> n = A,T,C or G

<400> 264

ggnttgaang	tatacgactc	nctanggcga	attgggccct	ctagatgcat	gctcgagcgg	60
cccgccagtg	tgatggatat	ctgcagaatt	cgcccttagc	gtggtcgcgg	ccgaggtacc	120
tttgataatt	cctagacctc	tattttcatt	ctgtgtatta	atgtgaataa	cagatggata	180
ttttaatatt	taaggcagat	ggtaaacttt	cctataggtc	ttgtgagact	tcgtcttata	240
ggctgaacac	cattcacaaa	atgtaataat	gcttcattcc	ttcaggttga	ggtaaagaac	300
ttgagcaact	ggattagcaa	agctgcaaag	aatgaaatgt	ggcctaagat	gtaattatgt	360
tctctgccct	tcctttgggc	cagggtagtt	ttgcacttga	cacaatggaa	aataggccat	420
aaagcctgaa	aataaaaatg	tctaaacccc	aatctcacag	cacttttagta	ggcttttcac	480
taggcattct	taaagtattt	tcaacaaaat	actaattaag	ctaccacttc	aaaagagctt	540
caaggaaaag	ctctgctttc	ttataaaaat	tttttgagac	agagtttccg	ctctgtgcag	600
cacaggctgg	agtgcaatgg	ccgtgatctc	gactnaaccg	naaccttcgg	cctgctgggt	660

tcaagtgatt ctctagncct caagcttctg agtaggttgg gattacaggc gcccgggncaa 720
ccacacctgg gctaaatttt ggatttctan gn 752

<210> 265
<211> 747
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 265
gngntttcnc nnngcgctct anagcatgct cgagcggccg ccagtgtgat ggatatctgc 60
agaattcgcc cttagcgtgg tcgcggccga ggtacctttg atnattccta gacctctatt 120
ttcattctgt gtattaatgt gaataacaga tggatattgt aatatttaag gcagatggta 180
aactttccta taggtcttgt gagactnct cttataggct gaacaccatt nacnanntgt 240
antaatgctt nattccttca ggcngaggtn nanaacttga gcacctggat tagcagcagc 300
tgcgaagaat gaaatgcngc ctaacatgta attatgnatc tctgnccttc ctttgggcca 360
gggtagtnat gcncctagaca cantggatga tangccatna agcctgannn tgnaatgatc 420
taaaccnnaa tctnncagca ctttattagg ctantcacta ggcactctta agagtnggtt 480
cccnttaata ctagncaacc nnccactcca aaanancctc aagganaagc tntgntntnt 540
tanaaaatct tttcgnnaca cantttnacn cttggcgenc angctggant gcaatggccg 600
tgatctctac tcaccggaan cctcngactg ctgagttcaa gtgattgtct gnccttanct 660
ctccgggacc angnttnggg attancaagc ctgcggggca annacaggtg nctaattgnt 720
tgcattngcn taaaatnagg acaccng 747

<210> 266
<211> 738
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 266
cgnnnntgaa ggntacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cgcccgccag tgtgatggat atctgcagaa ttcgcccttt cgagcggccg cccgggcagg 120
tacagctgaa gtttgataac aaagaaatat atataagaca aaaatagaca agagttaaca 180
ataaaaaacac aactatctgt tgacataaca tatggaaact ttttgtcaga aagctacatc 240
ttcttaatct gattgtccaa atcattaaaa tatggatgat tcagtgccat tttgccagaa 300
attcgtttgg ctggatcata gattaacatt ttcgagagca aatccaagcc attttcatcc 360
aagtttttga catgggatgc taggcttctg gtttccattt gggaaatgta ttcttatagt 420
cctgtaaaga ttccacttct ggccacactt cattattggg agtgcccaaa gctctgaaat 480
cctgaagagt tgatcaattc tgaatcccat ggaaaagtgg ttcttagtgc tagtcaacaa 540
atatngngc ctatactcca aaggtcactt ggagttgagt natggagctg accccagcat 600
acttttggaa aactggacca agtggttgca ccacnttaa aaaatttaaa accggngta 660
ttttaataaa ggtggaagaa accttttctt tttttattta aggaattcac ttagcnctta 720
ctaaattcat ggtggggg 738

<210> 267
<211> 731
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 267
gngnntttgn aagggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg ccctttcgag cggccgcccg ggcaggtaca gctgaagttt gataacaaag 120
aaatatatat aagacaaaaa tagacaagag ttaacaataa aaacacaact atctgttgac 180
ataacatatg gaaacttttt gtcagaaagc tacatcttct taatctgatt gtccaaatca 240
ttaaaatatg gatgattcag tgccattttg ccagaaattc gtttggtctg atcatagatt 300
aacattttcg agagcaaate caagccattt tcatccaagt ttttgacatg ggatgctagg 360
cttcctgggt tccattttgg aaatgtattc ttatagtcct gtaaagattc cacttctggc 420
cacacttcat tattgggagt gcccaaagct ctgaaaatcc tgaagagttg atcaatttct 480
gaatcccatat ggaaaagtgg tttcttagtt gctagttcag caaatatggg gcctatactc 540
caaatgtcaa ctggagttga gtaatgagct gaccccagca atacttctgg agatctgtca 600
agtggttgca acaccattaa aaaatataaa agcagtagtt atattaaaat aatgttgaag 660
aaaacatatn cctatatatt tnaaggaatt tcactaagca ctactaaatt tcatgttggt 720
gggangngtt a 731

<210> 268

<211> 745

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(745)

<223> n = A,T,C or G

<400> 268
gnnnnnntaa agnanacntc actatanngc gaattggggc ctctagatgc atgctcgagc 60
ggccgcccagt gtgatggata tctgcagaat tcgccctttg agcggccgcc cgggcaggta 120
cttcccacac aggtttgttg taaaaattaa gtgagctaata gtgtataaaa tacttcagtg 180
ctgaataaat gttggctttt attatatatt gttaaaaaaac aacacaggct gggatatgata 240
gctcacgcct ataatcctag catttaggga ggccaaggca ggaggattgc ttgagtccag 300
gggtttgaga ccagcctggg caacatagtg agaccctatc tctacaaaat aaaataaatt 360
agttgggcat ggtggcacat gcctgtagtc ccagctactc aggaggctga ggtgggagga 420
ttgcttgagc ccaggaggta gaggttgtag tgagctgtga tcacaccact gcactccagc 480
gtcgggtgacg gagtgagaac ctatctcaaa caaacaacaa aaaaaaccca aaacaaacaa 540
aaaaatccag taaagacaga gattcctaaa attctacaat tctaaaaacc agtagggctc 600
actgaatata agagaggcaa gcaaaaaatt actccaatat tttgagtttg ggtaacctgg 660
aatatgggtc atttattgag taaatagtta ctgagtccta actatgtgcc acacactggg 720
ttaacacttg gcactgtctc ttatg 745

<210> 269

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(730)

<223> n = A,T,C or G

<400> 269
gntnnnnntt tnaanccggt cctnntgcat gctcgagcgg cccgccagtg tgatggatat 60
ctgcagaatt cgccctttga gcggccgccc ggcaggtac ttcccacaca ggtttgttgt 120
aaaaattaag tgagctaata tgtataaaat acttcagtgc tgaataaatg ttggctttta 180
ttatatattg ttaaaaaaca acacaggctg ggtatgatag ctcacgccta taatcctagc 240
atttagggag gccaaaggcag gaggattgct tgagtccagg ggtttgagac cagcctgggc 300
aacatagtgga gaccctatct ctacaaaata aaataaatta gttgggcatg gtggcacatg 360
cctgtagtcc cagctactca ggaggctgag gtgggaggat tgcttgagcc caggaggtag 420
aggttgcagt gagctgtgat cacaccactg cactccagcg tcggtgacgg agtgagaacc 480
tatctcaaac aaacaaacaa aaaaacccaa aacaaacaaa aaaatccagt aaagacagag 540
attcctaaaa ttctacaatt ctaaaaacca gtagggtcga ctgaatataa gagaggcaag 600

caaaaaatta ctccaatatt ttgagtttgg gtaacctgga atatgggtcat tattgagtna 660
atagttactg agtcctacta tgtgccccaca ctgggtnaac acttgccactg tctcttatga 720
aatcttccan 730

<210> 270
<211> 713
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G

<400> 270
aattgggccc tctagatgca tgctcgagcg gccgccagtg tgatggatat ctgcagaatt 60
cgccctttcg agcggccgcc cgggcaggta caaaccaata gctcctattc tggaagggtt 120
tctttttatt taaaaaaaaat tcaaacaagg ttaaaagtca agcaagaagg gaagagagaa 180
actgggttct gagaaaaaaa tgtgccagta taaaataaac tcctaaatgc gtgcttgtca 240
tcctctagtt ttttttttaa gttgaatttc ttttccactg taacttaaga tttgagattg 300
aggtttgcgg tccagaacat accctcagca gatacagtga ctaactggaa agtgcagttg 360
ttcaagggtc gtcattgctca atcacctaaa gctataattt gnttgatata ttaagcatgt 420
agacctagtg cagcatggga gccactcagg aagtttatgc aattaataaa ctttcagcat 480
aatttactat gaagtatgca gaatttcacc ctcttctcca cacttaacat ttagttgtat 540
atgtgaactc tcctttctta attggggaat gtagcattat atagaatgtt gntaaaggta 600
attttaatcc tttttgacat taaccttttt tttttttggn aaaccaagtg atctgccttt 660
cagcaactgg cttatttttg gtcctttgaaa ctgngatttt tatttcattn gnc 713

<210> 271
<211> 702
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(702)
<223> n = A,T,C or G

<400> 271
gnctcgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg agcggccgcc 60
cgggcaggta caaaccaata gctcctattc tggaagggtt tctttttatt taaaaaaaaat 120
tcaaacaagg ttaaaagtca agcaagaagg gaagagagaa actgggttct gagaaaaaaa 180
tgtgccagta taaaataaac tcctaaatgc gtgcttgtca tcctctagtt ttttttttaa 240
gttgaatttc ttttccactg taacttaaga tttgagattg aggtttgcgg tccagaacat 300
accctcagca gatacagtga ctaactggaa agtgcagttg ttcaagggtc gtcattgctca 360
atcacctaaa agctataatt tgtttgatata attaagcatg tagacctagt gcagcatggg 420
agccactcag gaagtttatg caattaataa actttcagca taatttacta tgaagtatgc 480
agaatttcac cctcttctcc acacttaaca tttagttgta tatgtgaact ctctttctt 540
aattggggaa tgtncattat atagaatgtt ggtaaaggta attttaatcc tttttgacat 600
taaccttttt ttttttttg taaaccaagt gatctgnctt ttaacaactg gcttattttg 660
gtcctttgna actgggaatt ttatttcatt tgnncctcgg cc 702

<210> 272
<211> 736
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 272

gnnntttgan	nnnnnnnnnn	ntatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcggccgcc	cgggcaggta	120
ctttttttta	ttcctcagtt	aaaacatgcc	tgttattctt	tttgtaatac	ttaagcaatt	180
ttatttttaa	gatatactac	ttagttcatc	cgtctccact	tgtttttttt	ttttgnnant	240
annggggttg	ttccnttaan	nccacnggtt	ttaaanccat	nntngtcnnn	ggnaaattan	300
nnttantnat	taaanntnnn	tnncntngca	aanntccagn	taaaatttta	gtgggggggg	360
gggggttant	acnggnaann	aattaantnc	nggnaatan	tttaannntt	ggnaangnac	420
nntngnnnta	annattattt	nnttnanntt	tttaataann	annaatttta	ntttgnaacn	480
ntggtnntta	ntaannggaa	annccaatta	attgggttgg	tgnaattttc	ccagnaaccn	540
ntccntgggc	nggaacnncc	ntangggnaa	nttcnagnnn	ntngngggcn	gtncnnaggg	600
nnccaacnt	nggccancn	tgngggaann	nnnggcnnna	nnggttcccn	ggggnaaatg	660
gtattcngtt	cnaatccnnc	aanttccaac	ccggagnctt	aangggtaan	nccngggggg	720
cntanngagn	gcctaa					736

<210> 273

<211> 715

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(715)

<223> n = A,T,C or G

<400> 273

gngntttnac	ganngnnnnn	nnnnnctgct	cgagcggccg	ccagtgtgat	ggatatctgc	60
agaattegcc	ctttcgagcg	gccgcccggg	caggtacttt	tttttattcc	tcagttaaaa	120
catgcctgtt	attctttttg	taatacttaa	gcaattttat	tttaaagata	tactacttag	180
ttcatccgtc	tccacttggt	tttttttttt	gnnantanng	ggttggttcc	nttaanncna	240
cnggtnttaa	anccannnnn	gtcnnnggna	aattannntt	antcnntaaa	nntnnnnnnc	300
ntggnaannn	tccagntaaa	atttnagtgg	gggggggggg	ttaattancg	gnaannantt	360
aantnccgga	naatanttta	annnttggn	angnacnttn	gnntaagna	ttatttnntt	420
cannttttta	atnantanna	attttaattt	gnaancntgg	nntttannaa	nnggaaannc	480
caattaattg	gttggttgna	tttttcccag	naaccnnncc	ntgggcngga	acancntaa	540
ggncaaatch	accaantgnc	ggccgtacna	aggggatcca	acntnggcc	ancctggng	600
naataatggc	cnaantggtt	nccnggggna	aatggnatte	cgttcaaatt	ccnccanntc	660
cnacccggag	ccttaagngg	taaacctggg	ggcctaangg	ggggcctaac	tcaat	715

<210> 274

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(746)

<223> n = A,T,C or G

<400> 274

gnnntnnan	gnntacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtggtcgc	ggccgaggta	120
ccagggtggc	tgacgcacat	cccctaaaca	ttctggatct	cttactcatc	gtgaaaggca	180
gacgctctaa	gtctaaagtc	tagggtagga	gtttccattc	tttgaaaac	caaagatggt	240
tactcttctt	aatgaaactg	agaagaaggt	atctacagaa	aacactgaat	ttaaacaat	300
tatgaccttg	tttgttgaag	ccatcaagga	cccaagatat	atcaaagaac	aacatctctg	360
tattggccta	caggttcaga	gtgttttgag	gtctgtttta	gcactaatag	gatttttaggc	420
cagcatccag	tcagaagaga	tagttcacag	actcagagtt	ggaaacagat	taaaaaaaaa	480
aagatgtcaa	catagaaaat	gatgatagag	tttagttaaa	aaaattcaca	cataaaaatta	540
cagttaaaaa	aattcacaca	taaaatagag	tgtttgcata	gcaagacatt	attgcccttc	600
agcctggcag	aaaaacataa	actcaggtgt	atattttata	ataaacattg	nattgaatgc	660
taagaatgat	acactggtga	acatctnctg	aatggttgcc	ttcttgtaaa	tcataccaat	720

tggtttagaca attgaaattn ccagct

746

<210> 275
<211> 725
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 275
gnnnntaann ccttcctnt anatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggccg aggtaccagg tgggctgacg cacatcccct 120
aaacattctg gatctcttac tcatcgtgaa aggcagacgc tctaagtcta aagtctaggg 180
taggagtttc cattctttgg aaaaccaaag atggttactc ttcttaatga aactgagaag 240
aaggatatct cagaaaacac tgaatttaaa caaattatga ccttgtttgt tgaagccatc 300
aaggacccea gatatatcaa agaacaacat ctctgtattg gcctacaggt tcagagtgtt 360
ttgaggtctg ttttaagcact aataggattt taggccagca tccagtcaga agagatagtt 420
cacagactca gagttggaaa cagattaaaa aaaaaaagat gtcaacatag aaaatgatga 480
tagagtttag ttaaaaaaat tcacacataa aattacagtt aaaaaattc acacataaaa 540
tagagtgttt gcatagcaag acattattgc ccttcagcct ggcagaaaaa cataaactca 600
ggtgtatatt ttataataaa cattgnattg aatgctaaga atgatcactg ttgaacatct 660
cctgaatggt ttgccttctt gtaaatacata ccaatgggta gacaattgaa attccagctc 720
tttct 725

<210> 276
<211> 744
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 276
nnnnntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cgcccgccag tgtgatggat atctgcagaa ttcgccctta gcgtggctgc ggccgaggta 120
cttctgctgt ggtaactcaa gtaaccctcc gtttaaacca ggacagacct atgctgacaa 180
ccatttttat cactcttagt ggtattttct ttctttgaac atgaatgcat atttctgctc 240
tttaatggcc tttggtattt aagattacat tcagctagtc tccttattgc atgttgtttt 300
attccagtcc caccagcact cagaacaaca gcaagtgtgt gtaacagcgg gcacaggcgc 360
tccagacgga aggacctcac tgacgcagtt agctcaggta gagcttattt ctgtgttcaa 420
ttttcttgct atgagaagca gtgaccctta agaatttgta tccctttgtt cacttctttg 480
ttttaggaga gaaacttcta aagcattact ctaaaagggt atagagacag agacgggcca 540
ttttcatcta ccccttgacg agttaagttt tattacagta agttgtgagg tgagacatga 600
tggtgcagg cacatagtca agatctaccc ttctaaggaa ataaaacggg gaaaagtggg 660
tgaatgtcca atatagaaaa tttaatcacc actttcccaa aaaagaataa atggaggact 720
ncattggaat tatggaaatg aaan 744

<210> 277
<211> 724
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 277

gnnnnttncg	antgggccct	ctagatgcat	gctcgagcgg	ccgccagtgt	gatggatatc	60
tgcagaattc	gcccttagcg	tggtcgcggc	cgaggtactt	ctgctgtggt	aactcaagta	120
accctccgtt	taaaccagga	cagacctatg	ctgacaacca	tttttatcac	tcttagtggt	180
atthttctttc	tttgaacatg	aatgcatatt	tctgctcttt	aatggccttt	ggtatttaag	240
attacattca	gctagtctcc	ttattgcatg	ttgttttatt	ccagtcccac	cagcactcag	300
aacaacagca	agtgtgtgta	acagcgggca	caggcgctcc	agacggaagg	acctcactga	360
cgcagtttagc	tcaggttagag	cttatttctg	tgttcaattt	tcttgatcatg	agaagcagtg	420
accctaaga	atttgtatcc	ctttgttcac	ttctttgttt	taggagagaa	acttctaaag	480
cattactcta	aaaggtgata	gagacagaga	cgggccattt	tcatctaccc	cttgcagagt	540
taagttttat	tacagtaagt	tgtgaggtga	gacatgatgg	ctgcaggcac	atagtcaaga	600
tctacccttc	taaggaaata	aaacggggaa	aagtgggtga	atgtccaata	tagaaaattt	660
aatcaccact	ttccaaaaaa	gaataaatgg	aggactncat	tgttaattatg	gaaatgaaat	720
ttgg						724

<210> 278

<211> 748

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(748)

<223> n = A,T,C or G

<400> 278

gnnnntgaaa	gtatacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggccccgcca	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gtacagctgc	ccaagggcgt	tcgtaacggg	aatgccgaag	cgtgtgaaaa	agggagcggg	180
ggcgggaagac	ggggatgagc	tcaggacaga	gccagaggcc	aagaagagta	agacggccgc	240
aaagaaaaat	gacaaagagg	cagcaggaga	gggcccagcc	ctgtatgagg	acccccaga	300
tcagaaaacc	tcacccagtg	gcaaacctgc	cacactcaag	atctgctctt	ggaatgtgga	360
tgggcttcga	gcctggatta	agaagaaagg	attagattgg	gtaaaggaag	aagccccaga	420
tatactgtgc	cttcaagaga	ccaaatgttc	agagaacaaa	ctaccagctg	aacttcagga	480
gctgcctgga	ctctctcatc	aatactgggc	agctccttcg	gacaaggaag	ggtactagca	540
actaaccatg	gttaaaagg	cttagtcaga	attacaaaaa	caaaacattt	agagtaatac	600
ttatgaatac	aagcataatt	ggttcctcgc	cttctacaaa	taaccatctt	gaaaatgata	660
aaagcagggt	tcaactgtgg	tcttctctca	ttgagaagg	gcagatacac	atgggtgatc	720
tactgattta	ccttcttgaa	agtnctcg				748

<210> 279

<211> 727

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(727)

<223> n = A,T,C or G

<400> 279

gnnnnttcga	ntgggccctc	tngngcatgc	tcgagcggca	cgccagtgtg	atggatatct	60
gcagaattcg	ccctttcgag	cggccgcccc	ggcaggtaca	gctgcccaag	ggcgttcgta	120
acgggaatgc	cgaagcgtgt	gaaaaaggga	gcgggtggcg	aagacgggga	tgagctcagg	180
acagagccag	aggccaagaa	gagtaagacg	gccgcaaaga	aaaatgacaa	agaggcagca	240
ggagagggcc	cagccctgta	tgaggacccc	ccagatcaga	aaacctcacc	cagtggcaaa	300
cctgccacac	tcaagatctg	ctcttggaat	gtggatgggc	ttcgagcctg	gattaagaag	360
aaaggattag	attgggtaaa	ggaagaagcc	ccagatatac	tgtgccttca	agagaccaa	420
tgttcagaga	acaaactacc	agctgaactt	caggagctgc	ctggactctc	tcatcaatac	480
tggtcagctc	cttcggacaa	ggaagggtac	tagcaactaa	ccatgggttaa	aaggtcttag	540
tcagaattac	aaaaacaaaa	catttagagt	aatacttatg	aatcaagcat	aattgggtcc	600
tcgccttcta	caaataccat	ctttgaaaat	gatnaaaagc	aggtttcaac	tgtggttctt	660

ctctcanttg aaaaggtcag atcccatggg tgatctactg atttaccttc tgaaaagtac 720
ttggccg 727

<210> 280
<211> 751
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 280
gnnnntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cgcccgccag tgtgatggat atctgcagaa ttccccccta gcgtggctgc ggccgaggta 120
ctcatgtatt tttttttttt tccagatctc tttccccaag ttgctattgt aagagtattc 180
tgctgcgtgt ggatgcagtt atacacatta aagcagatct ggagtctgaa gtagctataa 240
agcagctata aaacagaaat acatgcatag ctgcagaaac catgataggt agaggacttt 300
tcttttggtt ttgttttggt ttgttttggt ttgttttggt ttttacagag aagagatttt 360
tattacaaag aaaaaaattc cagtgaattg tgcagaaatg ctgggttttta caccatccta 420
aagaaaaact ttacaagggt gttttggagt agaaaaaagg ttataaagtt ggaatcttaa 480
attgtaaaat taaccattga gtgtcaaagt tctaaaagca gaactcattt tgtgcaatga 540
acataaggaa agactactgn atagggttttt tttttctcct tttaaatgaa gaaaagcttt 600
gcttaagggt tgcatacttt tattggagta aatctgaatg atcctactcc tttggagtaa 660
aactagtgt taccagtttc caattggatt taacttctgg ggtggaattt ggaaaaaaa 720
agaannnngg aaaaagaaaa cctaanttaa n 751

<210> 281
<211> 727
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 281
gnnnttcgan tgggcccctc agatgcatgc tgcagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggccg aggtactcat gtattttttt ttttttccag 120
atctctttcc ccaagttgct attgtaagag tattctgctg cgtgtggatg cagttataca 180
cattaaagca gatctggagt ctgaagtagc tataaagcag ctataaaaca gaaatacatg 240
catagctgca gaaaccatga taggtagagg acttttcttt tggttttggt ttgttttggt 300
ttgttttggt tttggtttta cagagaagag atttttatta caaagaaaaa aattccagtg 360
aattgtgcag aaatgctggt ttttacacca tcctaaagaa aaactttaca aggggtgttt 420
ggagtagaaa aaagggtata aagttggaat cttaaattgt aaaattaacc attgagtgtc 480
aaagttctaa aagcagaact cattttgtgc aatgaacata aggaaagact actgnatagg 540
tttttttttt ctctttttta atgaagaaaa gctttgctta agggttgcat acttttattg 600
gagtaaatct gaatgacct actcctttgg agtaaaacta gngcttccag tttccaattg 660
gatttaactt ctggntggaa tttgnaaaaa aaagaanaaa aggaaaanga aaccctaant 720
naaatag 727

<210> 282
<211> 749
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 282

tnnaaagnaa	gctctttact	cactatnngg	gcgaattggg	ccctctagat	gcatgctcga	60
gcggccgcca	gtgtgatgga	tatctgcaga	attctncctt	cgagcggccg	cccgggcagg	120
tacttttttt	tttttttttt	tttttttttt	tttttnaaac	tactaggatt	tactgtagga	180
taaaagctnt	acatggccct	gcntacaaac	tttctgcata	cttctgcaaa	tttttatgcn	240
ttactnaatc	cattaataat	caccttgga	naaactgcaa	acncantana	aactaaatga	300
natagtcaca	gagaacanca	aaaatagtaa	ttnaagttcc	catacaacat	caagtgtgtn	360
cagtctattt	tnggttcttc	gggttctctt	taaaattgaa	ttgagtttgn	atatgcatat	420
gtatgtagga	gtggaggatg	gaattaatta	tcccaaacat	cctacantca	ctcctcta	480
atttctttng	ttaacatgca	aatctgttct	cttcattacg	gngatactgc	atttacatta	540
caacacantt	agagatcatt	aactttctcc	tttataatca	gccattttca	caggcctttg	600
atatacaagc	acctataata	tattcttact	catctcacac	tttcattttac	caaagtgtca	660
aaacaacatt	tttacatcat	tgatatttgg	ttnantttct	gcaanctggc	tgttanaaaa	720
tgattacttc	tnttaaatta	ccttttanc				749

<210> 283

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(730)

<223> n = A,T,C or G

<400> 283

gtctntgaan	cnggnctct	ngatgcatgc	tgcagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttcgagcg	gccgcccggg	caggtacttt	tttttttttt	tttttttttt	120
tttttttttc	aaactactag	gatttactgt	aggataaaag	ctntacatgg	ccctgcatac	180
aaactttntg	catacttntg	caaattttta	tgcattactc	aatccattaa	aatcacctt	240
ggaanaaact	gcaaacncaa	tagaaactaa	atganatagt	cacagagaac	aacaaaaata	300
gtaatttaag	ttcccataca	acatcaagtg	tgttcagtct	atttttgggt	cttcgggttc	360
tctttaaaat	tgaattgagt	ttgtatatgc	atatgtatgt	aggantggag	gatggaatta	420
attatcccaa	acatcctaca	ctcactcctc	taatatttct	tttgtaaca	tgcaaactctg	480
ttctcttcat	tacgnggata	ctgcatttac	attacaacac	aattagagat	cattaacttt	540
ctcctttata	atcagccatt	ttcacaggcc	tttgatatac	aagcacctat	aatatattct	600
tactcatctt	acactttcat	ttaccaaagt	gtcaaaaaca	acatttttac	atcattggat	660
atttggttta	gtttctgcaa	nctggctttt	anaaaaatga	ttacttctct	taaattacct	720
tttaccctca						730

<210> 284

<211> 739

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(739)

<223> n = A,T,C or G

<400> 284

gnnntnaaag	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tgcaccttag	cgtggctcgc	gccgaggtac	120
aacataaagc	aacagagagg	tcttcatgtt	tgggaagtgg	ctgggcagga	tgccaaaccc	180
caaattgactt	attgagcaat	ttctaaacca	aacagagagg	taggaaaaga	ggatgggggt	240
caggggtgga	ggctgtggaa	aggggagagc	gagggctgaa	gagaatggca	gccatacagg	300
tgttttgttt	ttatttccac	atctgaggac	tgagagtctg	atttgctgcc	tgtccatttc	360
cgccactcat	tgactgtcca	tagttcatca	tgccattggc	tccatagaag	ttcatcccag	420
ccatctgctg	ggctcatctga	gtaaggttcc	attgcagctg	ctgagctggc	tggaccccat	480
acacagtctg	gggcatagct	gccatgcctg	ccatgtagcc	agcctgctgg	gtgggtcatca	540
ttccattcgg	cacacccatc	attgatgcct	gcatgccacc	catatagcct	gcaggcatgg	600

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ccatgggggc aaccatccca gaactnctgc tgagcaacca tgcctactgg tgggaagcatc 660
atgcttccca ttatgctgtt angangtgta ccccnngggaa actggggtag ctgtgggata 720
tccatctgan ccggaccat 739
```

<210> 285
<211> 721
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(721)
<223> n = A,T,C or G

```
<400> 285
gnnnttcgan tgggccctct ngatgcatgc tgcagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggcac gaggtacaac ataaagcaac agagaggtct 120
tcatgtttgg gaagtggctg ggcaggatgc caaaccctaa atgacttatt gagcaatttc 180
taaaccaaac agagaggtag gaaaagagga tgggggtcag gggaggaggc tgtggaaagg 240
ggagagcgag ggctgaagag aatggcagcc atacagggtg tttgttttta tttccacatc 300
tgaggactga gagtctgatt tgctgcctgt ccatttccgc cactcattga ctgtccatag 360
ttcatcatgc cattggctcc atagaagttc atcccagcca tctgctgggt catctgagta 420
aggttccatt gcagctgctg agctggctgg accccataca cagtctgggg catagctgcc 480
atgcctgcca ttagcgcagc ctgctgggtg gtcattcatt cattcggcac acccatcatt 540
gatgcctgca tgccacccat atagcctgca ngcatggcca tgggggcaac catcccagaa 600
ctcctggctg agcaaccatg cctactggtg gangcatcat gcttcccatt atgctgttag 660
gangtgtacc ccggggaanc tggggtagct gtgggatatc catttaaccg gagccatgaa 720
c 721
```

<210> 286
<211> 757
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

```
<400> 286
gnnnnttaaa gnntacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cggcccgcca gtgtgatgga tatctgcaga attcgccctt tgcagcggcc gcccgggcag 120
gacgcggggg ttgcaccatg gcgtccatgg ggaccctcgc cttcgatgaa tatgggcgcc 180
ctttctctcat catcaaggat caggaccgca agtcccgtct tatgggactt gaggccctca 240
agttctcatat aatggcagca aaggctgtag caaatacaat gagaacatca cttggaccaa 300
atgggcttga taagatgatg gtggataagg atggggatgt gactgtaact aatgatgggg 360
ccaccatctt aagcatgatg gatgttgatc atcagattgc caagctgatg gtggaactgt 420
ccaagtctca ggatgatgaa attggagatg gaaccacagg agtgggtgtc ctggctgggtg 480
ccttgttaga agaagcggag caattgctag accgaggcat tcaccaatc agaatagccc 540
gatggctatg agcaggctgc tcgcgttgct attgaacacc tggacaagat cagcgatagc 600
gtccttggtg acataaagga caccgaacc ctgattcaga cagcaaaaaa ccacgctggg 660
cttncaaaag tgggtcaacag ttgtcaccga cagatggctt gaaaattgct gtgaaatgcc 720
cgtccttact gtaaccagat atngaaccgg aaaagac 757
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<210> 287
<211> 726
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(726)

<223> n = A,T,C or G

<400> 287

gnnnnnactga	tttctggctc	gaagttgnat	ntgcggncgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggacgcggg	ggttgcacca	tggcgtccat	120
ggggaccctc	gccttcgatg	aatatgggcg	ccctttcctc	atcatcaagg	atcaggaccg	180
caagtcccgt	cttatgggac	ttgaggccct	caagtctcat	ataatggcag	caaaggctgt	240
agcaaataca	atgagaacat	cacttggacc	aaatgggctt	gataagatga	tgggtggataa	300
ggatggggat	gtgactgtaa	ctaatagatg	ggccaccatc	ttaagcatga	tggatgttga	360
tcatcagatt	gccaagctga	tgggtggaact	gtccaagtct	caggatgatg	aaattggaga	420
tggaaccaca	ggagtgggtg	tcctggctgg	tgccttggtt	gaagaagcgg	agcaattgct	480
agaccgaggc	attcacccaa	tcagaatagc	ccgatggcta	tgagcaggct	gctcgcgttg	540
ctattgaaca	cctggacaag	atcagcgata	gcgtccttgn	tgacataaag	gacaccgaac	600
ccctgattca	gacagcaaaa	accacgctgg	gctccaaaag	tgggtcaacag	ttgtcaccga	660
cagatggctg	aaaatgctgt	gaatgccgtc	ctnctgtanc	agatatngaa	ccggaaaaga	720
ccttga						726

<210> 288

<211> 743

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(743)

<223> n = A,T,C or G

<400> 288

gnnntganng	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgcccagt	gtgatggata	tctgcagaat	tgcgcccttcg	gccgcccggg	caggtaacctt	120
ttacctaaaa	ttctagccac	tttaattttg	agagtttcca	gagcaaaggg	cacagatccc	180
aggcataaca	acgcttttgcg	tatacagcaa	ccaatatctt	gtcaacccaa	gaaagttcct	240
ccattgatac	ctagtagaaa	tagcccagtt	tttaaagtcc	tcaaaactgt	aacaaattac	300
ttgttttttaa	aattttaactt	aaattaatac	aatcagattt	ttgtgttatt	tgggtattag	360
agtatgttaa	agcacatata	tcccagagac	atagagtttc	cgtttcaaaa	agtcatgcat	420
tcatgtgtgc	taatgacaat	cctatcctga	cccgttatgt	gacttgtatc	tctaaaccat	480
aggctttcct	gaattttatc	tgttaattta	accctgattt	ctcagcagca	gcttctcttt	540
gtaaatagac	ttgcctcttc	tgtgtctgac	ctctgctcct	cataatcaga	ttaactcaga	600
taaagctgct	tcagggaaga	ggtcaaaaacc	gttgccaaaa	atagtagttg	ccctacttca	660
gtctattttc	aacagagtag	cccaggagat	ctgtcacacc	aaagtccaat	cagccctact	720
ggtagcactc	tgntcacaag	ccn				743

<210> 289

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(726)

<223> n = A,T,C or G

<400> 289

gnnnnnnactc	gcagtcctgc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttcgggc	gcccggggcag	gtacctttta	cctaaaattc	tagccacttt	120
aatttgagaga	gtttccagag	caaagggcac	agatcccagg	cataacaacg	ctttgcgtat	180
acagcaacca	atatcttgtc	aacccaagaa	agttcctcca	ttgataccta	gtagaaatag	240
cccagttttt	aaagtcctca	aaactgtaac	aaattacttg	tttttaaaat	ttaacttaaa	300
ttaatacaat	cagatttttg	tgttatattg	gtattagagt	atgttaaagc	acatatatcc	360
cagagacata	gagtttccgt	ttcaaaaagt	catgcattca	tgtgtgctaa	tgacaatcct	420
atcctgaccc	gctatgtgac	ttgtatctct	aaaccatagg	ctttcctgaa	ttttatctgt	480
taattttaacc	ctgattttctc	agcagcagct	tctctttgta	aatagacttg	cctcttctgt	540

gtctgacctc tgctcctcat aatcagatta actcagataa agctgcttca gggaagaggt 600
caaaaccgtt gccaaaaata gtagttgccc tacttcagtc tattttcaac agagtagcca 660
ggagatctgt tcacaccaa gtccaatcag ccctactggt agcactctgc tcacaagcct 720
ncagtg 726

<210> 290
<211> 740
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 290
gnnnnngaaag tatacgactc actatagggc gaattgggccc ctctagatgc atgctcgagc 60
ggccgccagt gtgatggata tctgcagaat tcgcccttag cgtggtcgcg gccgaggtag 120
ccagatgtct ttctcgggtca ccttcccag accatttaag acctccctag ctgctcgttc 180
tccagcctca actgcccctt ccattgtagcc gctccacttt gtggcagctc ctgtgcccg 240
aaagaaaatc ctgcccacgg gttgacgaat cacccttcca tattgagtca tgatcccagg 300
agggaaagtag gccgtgtagc agccccaga gtacctgccc gggcgggcgc tcgaaagggc 360
gaattccagc aacttggcgg ccgttactag tggatccgag ctcggtacca agcttggcgt 420
aatcatggtc atagctgttt cctgtgtgaa attgttatcc gtcacaatt ccacacaaca 480
tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagtgagc taactcacat 540
taattgcgtt gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt 600
aatgaatcgg ccaacgcgcc ggggagaggc ggnttgcgta ttgggcgctc ttncgctttc 660
tngctcactg actcgtcgcg ctcggtcgtt cggctgcggc naggcgtatc agctcattaa 720
angcgtaat acggtatccn 740

<210> 291
<211> 724
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 291
gnnnnnnncna ntgggcccctc tngngcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggccg aggtaccag atgtctttct cggtcacctt 120
cccagagacca tttaagacct ccctagctgc tcgttctcca gcctcaactg ccccttccat 180
gtagccgctc cactttgtgg cagtctctgt gcccgcaaag aaaatcctgc ccacggggtg 240
acgaatcacc cttccatatt gagtcatgat cccaggaggg aagtaggccc tgtagcagcc 300
cccagagtag ctgcccgggc ggccgctcga aaggcggaat tccagcacac tggcgccgct 360
tactagtga tccgagctcg gtaccaagct tggcgtaatc atggatcatag ctgtttcctg 420
tgtgaaattg ttatccgctc acaattccac acaacatacg agccggaagc ataaagtgtg 480
aagcctgggg tgcctaataa gtgagctaac tcacattaat tgcgttgccg tcaactgccc 540
ctttccagtc gggaaacctg tcgtgccagc tgcattaatg aatcgcccaa cgcgcgggga 600
gaggcggttt gcgtattggg cgctcttccg ctctctcgtc cactgactcg ctgcgcttng 660
nccgtccggt tgcggcagcg gtataactna ctcaaaggcg gtaataaccg tatncacaga 720
atca 724

<210> 292
<211> 740
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

<400> 292

gnnnnngnang	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggcccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtggtcgc	ggccgaggta	120
cagaaagaat	caaagaacat	atatatatat	taagtttcat	tccaacctac	aaagagcctg	180
cacttaaaag	tcttaaagg	ttcctgaatc	atggaatctc	aacttacctg	ccaattaatc	240
cagttctctc	tttttaaagt	cagactccaa	ccttaaacag	aaggcatatt	ctagctgact	300
tctaagtgtg	tccaaagcat	acctcagaga	gccaagtggg	ctgtgttcaa	tacctattct	360
ttctatagaa	tctcaaaagt	ggcagtatga	tgaaaagaaa	agctactttt	tctcctaaaa	420
ataccccctt	tcatcatcag	tgtgttgatc	tttttgcac	acaaagaata	gacattctaa	480
atgttccctt	ccacacagaa	agacataaga	gagaatgtga	gtatgagtga	gagtgtgtag	540
gtaagttgag	ggatagtttg	ctatccaaaa	tgaatcattt	tgaagatgac	tttgtaaaga	600
agtaatatag	ttaaaaatct	caagacatga	gattgangan	ggcagggaaa	taaaggacct	660
angaatggaa	aagagttaca	gcccattgtg	atacatcac	aaacctacca	ggttatttct	720
gngaattctc	acacaggttg					740

<210> 293

<211> 723

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(723)

<223> n = A,T,C or G

<400> 293

gnnnnnnnncn	annggccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtacaga	aagaatcaaa	gaacatatat	120
atatattaag	tttcattcca	acctacaaag	agcctgcact	taaaagtctt	aaaggtttcc	180
tgaatcatgg	aatctcaact	tacctgccaa	ttaatccagt	tctctctttt	taaatgcaga	240
ctccaacctt	aaacagaagg	catattctag	ctgacttcta	agtgtgtcca	aagcatacct	300
cagagagcca	agtggctctg	gttcaatacc	tattctttct	atagaatctc	aaaagtggca	360
gtatgatgaa	aagaaaagct	actttttctc	ctaaaaatac	cccccttcat	catcagtgtg	420
ttgtcatttt	tgcatacaca	agaatagaca	ttctaaatgt	tcccttccac	acagaaagac	480
ataagagaga	atgtgagtat	gagtgtgagt	gtgtaggtaa	gttgagggat	agtttgctat	540
ccaaaatgaa	tcattttgaa	gatgactttg	taaagaagta	atatagttaa	aaatctcaag	600
agcatgagat	tganganggc	agggaaataa	angcctagga	atggaaaaga	gttaacagcc	660
catgtgaata	catagcacaa	acctaccagg	ttatttctgg	gaatctnacc	agtttgctgg	720
aaa						723

<210> 294

<211> 736

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(736)

<223> n = A,T,C or G

<400> 294

gnnnnnnnna	gaccgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcgcccgcc	cgggcaggta	120
cctgggatta	caggcaccca	ccaccacgcc	tggctaattt	ttttttgtat	ctttagtagg	180
gttttgccat	gttggccagg	ctggtcttta	actcctacct	cgtgatccac	ccgcctcggc	240
cccccaaagt	gctaggacca	caggcgtgag	ccaccacgcc	cagccccctg	tctctttttt	300
taaaacacaa	tttaaaagca	gaaagaaaaa	atctgtgctg	tttagactca	gattcttaat	360
tagctagtat	ttcttaattc	aatcaataaa	ttattaagac	cttttcaactg	ctcccttttt	420
aaagtcttct	ttggagtgat	ttaagtgtct	cttattacca	agctctcaaa	gagaagataa	480

aattaaaatc	tgatgggtaa	ccattttaat	aagacaactg	gggtaaccca	tttctccagg	540
acccctctct	gcaacagaga	gctattctct	ttctttggcc	tagtaaacct	ctgctcttaa	600
cctttaaaaa	aaaaaaaaaa	gtacctcggc	cgcgaccacg	ctaanggcga	attccagcac	660
actggcggcc	gttactagt	gatccgaact	cggtccaact	tggcgtaatc	atggcatagt	720
ggttcctgng	tgaaan					736

<210> 295
<211> 725
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

gnnnnnnnnn	annngncct	ctagatgcat	gctcgagcgg	ccgccagtgt	gatggatatc	60
tgcagaattc	gccctttcga	gcggccgccc	gggcaggtac	ctgggattac	aggcaccac	120
caccacgcct	ggctaatttt	tttttgtatc	tttagtaggg	ttttgccatg	ttggccaggc	180
tggctctttaa	ctectacctc	gtgatccacc	cgctcggcc	ccccaaagt	ctaggaccac	240
aggcgtgagc	caccacgccc	agccccctgt	ctcttttttt	aaaacacaat	ttaaaagcag	300
aaagaaaaaa	tctgtgctgt	ttagactcag	attcttaatt	agctagtatt	tcttaattca	360
atcaataaat	tattaagacc	ttttcactgc	tcccttttta	aagtcttctt	tggagtgatt	420
taagtgtctc	ttattaccaa	gctctcaaag	agaagataaa	attaaaatct	gatgggtaac	480
cattttaaata	agacaactgg	ggtaacccat	ttctccagga	cccctctctg	caacagagag	540
ctattctctt	tctttggcct	agtaaaccct	tgctcttaac	ctttaaaaaa	aaaaaaaaag	600
tacctcggcc	gcgaccacgc	taaggggcga	ttccagcaca	ctggcgggccg	ttactagtgg	660
atccgaactc	ggtaccaagc	ttgcgtaatc	atggcatagc	tggttcctgt	gtgaaatggt	720
atccg						725

<210> 296
<211> 742
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

gnnnnnnnnn	nnacaaanct	gggtagggcg	aattgggccc	tctagatgca	tgctcgagcg	60
gccgccagt	tgatggatat	ctgcagaatt	cgccctttcg	agcgcccgcc	cgggcaggta	120
ccatgctgac	ttcttggtat	cttttaaggc	ctaattttcc	cttcttgag	attactgtag	180
tgtgttccag	ctaatttcta	tttggaacg	agttggaaca	gctgaaaact	aggtattatt	240
gaaggcaaag	cagcctcacg	tcagtttttt	atcagctcat	ttgggaagtt	tttttttttt	300
ttttttttta	attaattaga	aagtaggctg	ggcacggtgg	ctcatgccta	taatcccagc	360
acttggggag	gccgaggatc	tcctctctgg	tggatcactt	gagggcagga	gttaagagac	420
catcctggcc	aacatgatga	aaccctgtct	ctactaaaaa	tacaaaaagt	agctgggcgt	480
ggtggcatac	tcttacaatc	ccagctactt	gggaggctga	ggcaggagaa	tcacttgaac	540
ctaggaagca	gaggttgag	tgggccaaga	tcacaccact	atactctagc	ctgggcgaca	600
gaagtgggga	aaaaagtagg	acccctgtcc	tatattcang	gttttctcac	atatatgaac	660
ccatctaaat	tctacgttgg	taaaaggaac	ctaaggttaa	ttagnctata	cttatttaag	720
aaccattntg	ggngggagat	gg				742

<210> 297
<211> 728
<212> DNA
<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 297
tnnnntttga anncnacnct ctagngcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg cccttttcgag cggccgcccg ggcaggtacc atgctgactt cttggtatct 120
tttaaggcct aattttccct tccttgagat tactgtagtg tgttccagct aatttctatt 180
tggaacagag ttggaacagc tgaaaactag gtattattga aggcaaagca gcctcacgtc 240
agttttttat cagctcattt gggaagtttt tttttttttt tttttttaat taattagaaa 300
gtaggctggg cacggtggct catgcctata atcccagcac ttggggaggc cgaggatctc 360
ctctctggtg gatcacttga gggcaggagt taagagacca tcctggccaa catgatgaaa 420
ccctgtctct actaaaaata caaaaagtag ctgggcgtgg tggcatactc ttacaatccc 480
agctacttgg gaggctgagg caggagaatc acttgaacct aggaagcaga ggttgcagtg 540
ggccaagatc acaccactat actctagcct gggcgacaga agtggggaaa aaagtaggac 600
ccctgtccta tattcangtt tttctcacat atatgaacct atctaaattc tacgttggtg 660
aaggtanctt aagttaatta gnctatactt atttaaganc aatatggggg gaaaatggat 720
tttttttn 728

<210> 298
<211> 745
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 298
gnnnnnttna nnnnatacga ctcactatat agggcgaatt gggccctcta gatgcatgct 60
cgagcggccg ccagtgtgat ggatatctgc agaattcgcc cttagcgtgg tcgcggccga 120
ggtacccacg ttttgctcca cactccttga ccgcaggggc tcggacacaa acccctgtca 180
ccaggagagt cagtcagcac tacttgggag ggctaaaggg aaatttggaa ataaaattcc 240
aaagtttggg gtaaaaaaat tcaagtgttg attttatatt ctttcccttt ctgacacagc 300
ctaaagcgtg gggggaacat gtgtttatct gtgggagata aacaagatgg agtcccaaag 360
actttaacaa aatatttttt taaaaatcca ctagaataga aaatacatta tttagatata 420
ctttatgctg agagttagta tatatgcttg tcctatttaa acttgtgaga aaaagtggta 480
tcccttgata catttagaaa tatgggggct atcttgtttc attgtggggg tggggcagaa 540
ggagaataaaa tgcaggatga ccctgttgaa ggaatcttag catggccaac aggggacgtt 600
tccagtcgat taccaggaaa tgcaagcctt ggggtttcta ctggtggtgg ggctgtcatg 660
aacttttaaaa tccaaagcct agacaaggaa aagtgttaga ccaattgaaa agcaatccac 720
cctttttttt tttttttttt ggctt 745

<210> 299
<211> 733
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 299
gnnnnnnnnn nnnnnnnccct ctagatgctg ctogaacggc cgccagtgtg atggatatct 60
gcagaattcg cccttagcgt ggctcgcgcc gaggtaccca cgttttgctc cacactcctt 120
gaccgcaggg gctcggacac aaaccctgt caccaggaga gtcagtcagc actacttggg 180
agggctaaag ggaaatttgg aaataaaaatt ccaaagtttg gagtaaaaaa attcaagtgt 240
tgattttata ttctttccct ttctgacaca gcctaaagcg tagggggaac atgtgtttat 300
ctgtgggaga taaacaagat ggagtcctaa agactttaac aaaatatatt tttaaaaatc 360
cactagaata gaaaatacat tatttagata tactttatgc tgagagttag tatatatgct 420

```
tgtcctatTT aaacttTgtga gaaaaagtgg tatcccttga tacatttaga aatatggggg 480
ctatcttTgtt tcattTgtggg ggtggggcag aaggagaata aatgccagga tgaccctgtt 540
gaaggaatct tancatggcc aacaggggac gtttccagtc gattaccagg aaatgcaagc 600
cttggggTtt ctactggTgg tggggctgtc atgaacnttt aaaatccaaa gcctagacca 660
aggaaaagtg ttaganccan tggaaaagcc attccagccc tttttttttn nnnntttttg 720
gcttttcacc aca 733
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<210> 300

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 300

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gnnnntgann gtatacgaac tcactatagg gcgaattggg ccctctagat gcatgctcga 60
gcggccgcca gtTgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtacgtagtc taggcatat gtgttggaga ttgagactag tagggctagg cccaccgctg 180
cttcgcaggc ggcaaagact agtatggcaa taggcacaat attggctaag agggagtggg 240
tgttgagggT tatgagagta gctataatga acagcgatag tattattcct tctaggcaca 300
gtagggagga tatgaggtgt gagcgatata ctagtattcc tagaagtgag atggtaaagt 360
ctagtataat atttatgtaa atgaggggcc ccgcgtactc aagtgggtct ctgcctctca 420
gtggTggcct tggTcttcaa gtttcagcaa ttctgggaag ccaaggacac ctccatctcc 480
tcctccctga tctgcaactc atctaagagc agctttctca ctggaatgtc ttgtgtttaa 540
ggaacaagaa tccctgtttc cggtttgggt gcccaagtgc acctactgga tccaaccag 600
gattggagat actttgcaga acacaacatc atctggcaca tgaccagcca tggTgtttca 660
ctttcacaat ttcagcttnc ttcactgatt gcagcataat cgnggtcaac accttcaaga 720
ccaaggctga tgtgggcccgc t 741
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<210> 301

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 301

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gnnnntnncn antgggccct ctngngcatn gctcgagcgg cacgccagtg tgatggatat 60
ctgcagaatt cgccctttcg agcgcccgcc cgggcaggta cgtagtctag gccatatgtg 120
ttggagattg agactagtag ggctaggccc accgctgctt cgcaggcggc aaagactagt 180
atggcaatag gcacaatatt ggctaagagg gagtgggtgt tgagggttat gagagtagct 240
ataatgaaca gcgatagtat tttccttct aggcacagta gggaggatat gaggtgtgag 300
cgatatacta gtattcctag aagtgagatg gtaaattgcta gtataatatt tatgtaaagt 360
aggggccccg cgtactcaag tgggtctctg cctctcagtg gtggccttgg tcttcaagtt 420
tcagcaattc tgggaagcca aggacacctc catctcctcc tccctgatct gcaactcatc 480
taagagcagc tttctcactg gaatgtcttg tgtttaagga acaagaatcc ctgtttccgg 540
tttgggtgcc caagtgcacc tactggatcc aaccaggat tggagatact ttgcagaaca 600
caacatcatc tggcacatga ccagccatgg tgtttcactt tcacaatttc agcttncttc 660
actgattgca cataatcgtg gtcaacacct tcaagaccan ggctgatgtg ggccgntaca 720
ngga 724
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<210> 302

<211> 745

<212> DNA

<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 302
gnnnntgaaa gtntanacga ctactatag ggccaattgg gccctctaga tgcattgctcg 60
agcgcccgcc agtgtgatgg atatctgcag aattcgccct ttcgagcggc cgcccgggca 120
ggtactattc cggatataca agatcactgg gagatgttga tgatggagac acagtgcacg 180
atttcatggc ccaagagcga gaaagaggca ttactattca atcagctgct gttacatttg 240
attggaaagg ttatagagtc aatctaattg atacaccagg tcatgtggac tttaccttgg 300
aggttgagcg gtgcctaaga gtgttggatg gtgcagtggc tgtatttgat gcctctgctg 360
gtgtagaggc ccagactctc acagtatgga ggcaagctga taaacacaat atacctcgaa 420
tctgtttttt aaacaagatg gacaaaactg gagcaagctt taagtatgca gttgaaagca 480
tcagagagaa gttaaaggca aagcctttgc ttttacagtt accaattggg gaagccaaaa 540
ctttcaaagg agtgggtgat gtagtaatga aagaaaaact tctttggaat tgcaattcaa 600
atgatggaaa agactttgag agaaagcccc tcttggaat gaatgatcct gaattgctga 660
aggaaacaac tgaagcaagg aatgccttaa ttgaacaagt tgcagaattt ggatgatgaa 720
ttgctgactt gggtttanaa naaat 745

<210> 303
<211> 724
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 303
gnnnttcgan tgggcccttc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg cccttttcgag cggccgcccc ggcagggtact attccggata tacaagatca 120
ctgggagatg ttgatgatgg agacacagtg acagatttca tggcccaaga gcgagaaaga 180
ggcattacta ttcaatcagc tgctgttaca tttgattgga aaggttatag agtcaatcta 240
attgatacac cagggtcatgt ggactttacc ttggagggtg agcgggtgcct aagagtgttg 300
gatgggtgcag tggctgtatt tgatgcctct gctgggtgtag aggccagac tctcacagta 360
tggaggcaag ctgataaaca caatatacct cgaatctgtt ttttaaaca gatggacaaa 420
actggagcaa gctttaagta tgcagttgaa agcatcagag agaagttaaa ggcaaagcct 480
ttgcttttac agttaccaat tgggtgaagc aaaactttca aaggagtggg ggatgtagta 540
atgaaagaaa aactttcttg gaattgcaat tcaaatgatg gaaaagactt tgagagaaaag 600
cccctcttgg aaatgaatga tcctgaattg ctgaaggaaa caactgaagc aaggaatgcc 660
ttaattgaca agttgcagat ttggatgatg aatttgctga cttgggtttta gaagaattan 720
tgag 724

<210> 304
<211> 741
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 304
gnnnnnngaa agntnacgac tcactatagg gcgaattggg ccctctagat gcatgctcga 60
gcggccgcca gtgtgatgga tatctgcaga attcgccctt agcgtggctg cgcccgagg 120
actttataaa tggaattttc ttctacttgt atccatttcc cggggcttat ggaccattc 180
atactctcca tatttagaat caaagggtcc tttctgaaga gaccttaatt ttaaggtaaa 240
acgtgggtcca agttcctgaa ttcccacttt cttttcactc ctgaatatgt atctgtgaaa 300
tctgaagaat atgtaatccc gttgattgtg gaatgtggca acctgccttc cgataaattg 360

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aggattatga ggaaagagag atgcaaacat acgtccaatt gaatgaccca gccgtgttgt 420
aaaattattc agaattatct caggatatgt ttctgtgggg tccttgcttc ttctcttaat 480
ttctttacga agacgaacac tgctcatttt aaaatgagca gttggggccat ttggcaagtg 540
actcaaaata agtccatttg gggtttttacg atcttcatta ataacaatca ggtctgtgaa 600
atctcttgcg atgcactgtg gaataatttt tttcagaacc agcctcttct gtaataaaca 660
tgtgagtttg gtataactgt gganagctgt cacagagtcg taccagtata ccaaccatac 720
caactntgtt gtagagcaaa a 741
```

<210> 305
<211> 719
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

```
<400> 305
gnnnttncaa ntggggccctc tngatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg cccttagcgt ggtcgcggcc gaggtacttt ataaatggaa tttcttcta 120
cttgtatcca ttcccgggg cttatggacc cattcatact ctccatattt agaatcaaag 180
gttcctttct gaagagacct taattttaag gtaaaacgtg gtccaagtcc ctgaattccc 240
actttctttt cactcctgaa tatgtatctg tgaaatctga agaatatgta atcccgttga 300
ttgtggaatg tggcaacctg ccttccgata aattgaggat tatgaggaaa gagagatgca 360
aacatacgtc caattgaatg acccagccgt gttgtaaaat tattcagaat tatttcaggt 420
atgtgttctg tggggtcctt gcctcttctc ttaatttctt tacgaagacg aacactgctc 480
attttaaaat gagcagttgg gccatttggc aagtgactca aaataagtcc atttgggggt 540
ttacgatctt cattaataac aatcaggtct gtgaaatctc ttgcgatgca ctgtggaata 600
attttttcag agccagtcct cttctgtaat aaacatgtga agtttggtat actgtggana 660
gctgtcacag agtcgacagt ataccaacca taccaactct gttgnagaac anaacccat 719
```

<210> 306
<211> 746
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

```
<400> 306
gnnnnntgaa agtatacgac tcactatagg gcgaattggg ccctctagat gcatgctcga 60
gcggcccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtactccagc ccaggcgaca gaggtagact cagtctcaaa aaaaaaaaaa atttgggcaa 180
gttatagtcc atctcatagt gttgttagga ctaatttctt catgtgctta gaaaaatgcc 240
tggcagatag gaaatggcca atattattat tattgataag atgaccattt tggagttag 300
aaaaccattt tcaatgccta tgaaataaca actccataag ccattccctt aaatccagta 360
gactgaattc tcacaagtcc tcactactca tcatttctac atcctgctga tttacaaata 420
cttcttcata ccatggttta tgtctttgct taatatcaag gaggatggat tccatggtag 480
agccaaactc aatgatacta cgagtctcat tttggtaagt ataagcaaag ccagcagcat 540
gcatggccac caatgaacct tttgaatcaa acacagggga gcccggaagc cccaaagaaa 600
aattcaggtg cataggtaat cacatcangg ttgtgaacta ttttctggaa acttctttga 660
gtatacatat ggacatactc tggactttct gcttttttag actgaacacg ttcctgacat 720
ttctttgctc gctgaccctg anggat 746
```

<210> 307
<211> 725
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 307
gnnnnntncn antggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg cccttttcgag cggccgcccg ggcaggtact ccagcccagg cgacagagtg 120
agactcagtc tcaaaaaaaaa aaaaaatttg ggcaagttat agtccatctc atagtgttgt 180
taggactaat ttcttcatgt gcttagaaaa atgcctggca gataggaaat ggtcaatatt 240
attattattg ataagatgac ctttttgag tttagaaaac ctttttcaat gcctatgaaa 300
taacaactcc ataagccatt cccttaaadc cagtagactg aattctcaca agtcctcatc 360
actcatcatt tctacatcct gctgatttac aaatacttct tcataccatg gtttatgtct 420
ttgcttaata tcaaggagga tggattccat ggtagagcca aactcaatga tactacgagt 480
ctcatttttg taagtataag caaagccagc agcatgcatg gccaccaatg aaccttttga 540
atcaaacaca ggggagccgg aagccccaaa gaaaaattca gtgtcatagg taatcacatc 600
anggttgtga actattttct ggaaacttct ttgagtatac atatggacat actctggact 660
ttctgctttt ttagactgac acgttcctga cttttctttg ctgctgacc ctgagggatc 720
acang 725

<210> 308
<211> 744
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 308
gnnnntgaaa gtaatacgac tcaactatagg gcgaattggg ccctctagat gcatgctcga 60
gcggccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtacgcgggg tgacaagtag caacatggct tgggtccctt gtgcagcatc agcttatgct 180
gccacaagtc agtttgcacc ctaggtaccc aggagctagt atccttagat ctttctatcg 240
ctaacttaat tctcttcggt atttatctga ccctctaact ccatgtctaa cttgcattaa 300
aaaaaaaaaa attctttaca gtcaacccaa gcttaacatg gactcaggtt ccccagcagc 360
cttaatttgt tttgttaaca tctgttcctt ctttttcagc tctcctagag tatttctgag 420
tgttgtgttc atctaattctt agtattcttt taattacaaa ttgacctcac agcttgaggt 480
ttcctgtgtc ttattctgtg gactacctgt gctcctttgc ttccctccc ctgcataat 540
aactatatta agaaattttt tttggccttg agttggctgg aaaaaaata taaaatttaa 600
aaaaaaaaan nnnnnnnnaa aaaaaaaaag tacctnggcc gggaccacgc taanggcgaa 660
ttccagcaca ctggcgccg ttactaagtg gatccgaact cgggtaccaac ttggcgtaat 720
catggcatag ctggttcctg ngga 744

<210> 309
<211> 746
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 309
gnnnntncga ntgggcccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg cccttttcgag cggccgcccg ggcaggtacg cggggtgaca agtagcaaca 120
tggttgggt cccctgtgca gcatcagctt atgctgccac aagtcagttt gcaccctagg 180
taccaggag ctagtatcct tagatcttct tatcgctaac ttaattctct tcgttattta 240
tctgaccctc taactccatg tctaacttgc attaaaaaaa aaaaaattct ttacagtcaa 300
cccaagctta acatggactc aggttcccca gcagccttaa tttgttttgt taacatctgt 360

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tccttctttt tcagctctcc tagagtattt ctgagtgttg tgttcattcta atcttagtat 420
tcttttaatt acaaattgac ctcacagctt gaggtttcct gtgtcttatt ctgtggacta 480
cctgtgctcc tttgcttccc ctcccctcgc ataataacta tattaagaaa ttttttttgg 540
ccttgagttg gctggaaaaa aaatataaaa tttaaaaaaa aaannnnnnn nnnnaaaaaa 600
aaaagtcctt ggccgggacc acnctaangg cgaaattcca gcacaactgg gcggnccggt 660
actaagggga atcccnaact tnggnaccn aaacttgggc gtaaaacaat gggncataa 720
gctggnnncc ctgnggtga aaaatt 746

```

<210> 310

<211> 751

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(751)

<223> n = A,T,C or G

<400> 310

```

gnnnntgana gtaatacgac tcactatagg gccaattggg ccctctagat gcatgctcga 60
gcggccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtacttaatg cttttctcct cctggacatc agagagaaca cctgggtatt ctggcagaag 180
tttatatttc tccaaatcaa tttctggaaa aaacgtgtca ctttcaaagt cttgcatgat 240
ccttgtcaca aatagtttaa gatggcctgg gtgattcatg gcttccttat aaacagaact 300
gccaccaact atccagacca tgtctacttt atttgctaatt tctgggtggt cagtaagttt 360
taaggcatca tctagacttc tggaaagaaa atgagctcct tgtggagggt ccttgagttc 420
tctgctgaga actaaattaa ttctaccctt taaaggctga ttctctcag gaatggagaa 480
ccaggctctt ttaccataa tcaccagatt ctgnttacct tctactgaag aagttgtggt 540
cattctctgg aaatatctga attcattcct gagcgggtggc caaggcangt ncccgttctt 600
gccgatgcc atgttctggg acacagcgac gatgcagttt agcgaaccaa ccatgacagc 660
aaccgggang accttcgagc cccgttcgnt acaagccccc gcgtacctn gggccgngaa 720
cacgttaag ggcgaattnc aacacactgg c 751

```

<210> 311

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 311

```

gnnttnenan tgggccctct agatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ctttcgagc ggccgcccgg gcaggtactt aatgcctttc tcctcctgga 120
catcagagag aacacctggg tattctggca gaagtttata tttctccaaa tcaatttctg 180
gaaaaaacgt gtcactttca aagtcttgca tgatccttgt cacaatagt ttaagatggc 240
ctgggtgatt catggcttcc ttataaacag aactgccacc aactatccag accatgtcta 300
ctttatttgc taattctggt tgttcagtaa gttttaaggc atcatctaga cttctggaaa 360
gaaaatgagc tccttgtgga ggttccttga gttctctgct gagaactaaa ttaattctac 420
cctttaaagg tcgattcttc tcaggaatgg agaaccaggt cttcttacc ataataacca 480
gattctgttt accttctact gaagagggtg tggtcattct ctggaaatat ctgaattcat 540
tcctgagcgg tggccaaggc angccccgt tcttgccgat gcccatgttc tgggacacag 600
cgacgatgca gtttancgaa ccacctatga cagcagcggg aggaccttcg agcccgtctg 660
ttacaagccc ccgcgtacct tnggccgcga acaccttang gcgaaattca acacactggc 720
ggcc 724

```

<210> 312

<211> 738

<212> DNA

<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 312
nnnntttgaa gnctacnact cactataggg cgaattgggc cctctagatg catgctcgag 60
cggccgccag tgtgatggat atctgcagaa ttcgcccttt gagcgccgc ccgggcaggt 120
acgcgggggg cagacatggc gacattgaca gtggtccagc cgctcaccct ggacagagat 180
gttgcaagag caattgaatt actggaaaaa ctacaggaat ctggagaagt acgttcacta 240
attatctaca aggacaaaat cagttgtatt tacaaaactc tacttcagtg tttgttttag 300
tttttttttt actgaaactt gtttttgtga atactctgtg cttagaatta aatatacatt 360
tcttatgaac aacataactt cttcagattg tgtatatgaa aacattagca agtcttgttt 420
tttctatgaa gcaaacacaa ttggtgacaa aggttggtcaa tcatttcttc aaaattataa 480
tgcagttcta atggtcagca tatttttgata ttaaatttaa agatcacctc tctgcatttg 540
tttttaaatt atgctaatac accacacatt atgttggtat gttttggtct gtcctcggcc 600
gcgaccacgc ttanggcgaa ttcacagaca ctggcgggcc gttactagtg gatccgagct 660
cggtccaagc tggcgtaatc atggtcatag ctggttctctg tgtgaaatgg tatccggtac 720
aattcccaca catacgan 738

<210> 313
<211> 720
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(720)
<223> n = A,T,C or G

<400> 313
gnnttncaan tgggccctct agatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc cttttgagcg gccgcccggg caggtacgcg gggggcagac atggcgacat 120
tgacagtggc ccagccgctc accctggaca gagatgttgc aagagcaatt gaattactgg 180
aaaaactaca ggaatctgga gaagtacgtt cactaattat ctacaaggac aaaatcagtt 240
gtatttacia aactctactt cagtgtttgt tttagttttt tttttactga aacttgtttt 300
tgtgaatact ctgtgcttag aattaaatat cactttctta tgaacaacat aacttcttca 360
gattgtgtat atgaaaacat tagcaagtct tgttttttct atgaagcaaa cacaattggc 420
gacaaagggt gtcaatcatt tcttcaaaat tataatgcag ttctaattggc cagcatattt 480
tgatattaaa tttaaagatc acctctctgc atttggtttt aaattatgct aatacaccac 540
acattatggt ggtatgtttt gntctgtacc tcggccgcga ccacgctaan ggcgaattca 600
ncacactggc ngncgttact agtggatccg agctcggacc aaacttggcg taatcatngn 660
catagctggt tcctgtgtga aaatggtatc cgttacaatt tcacacacat acgagccgga 720

<210> 314
<211> 740
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 314
gnnnnttnaa gnctacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cggccgccag tgtgatggat atctgcagaa ttcgccctta gcgtgggtcgc ggccgaggta 120
cttttttttt tttttttttt ttagtgcttt ctactttatt aaacatcaaa gcccaaatag 180
atgttccctg tggaggagga cttaaggaca ctaggggagg agaaaggagc acctgggaag 240
agaatcacac cacagagacc aatcttcaca aaaagggtcc aatattgatt tctagggagg 300
agcagggcat ggtcagctca aatttggtga taacgtcagg atgaaggacc ccaagcttcc 360

cgacgctttg	acccctggca	aagatctctg	cacatcgccc	ggggaagaaa	gcaggccctt	420
ctgatgcttt	gatcacatat	cccccttgt	cttcaccagg	aggcacatcg	agcaactgca	480
taattctgtc	cagcagccca	tgaatgatct	caaaccagg	attcttgntg	taataaacag	540
cactgagatg	tctgtagttt	tttgcaccta	catctgnatt	agaatctttt	attacaatgt	600
cagagatttc	aaacagtttc	agtggaagg	gcattcttacg	attgctgcta	tggtttcagg	660
angccaggaa	gaagggtagt	gcgtgccacc	tgaaattcac	tggttttagga	tacttatgtg	720
gactggcttt	gttgcaaaan					740

<210> 315
<211> 722
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (722)
<223> n = A,T,C or G

<400> 315	
gnnnnnnnnn	nnnnnnntnn
atgctgctcg	agcggccgcc
agtgtgatgc	atatctgcag
aattcgccct	tagcgtggtc
gcgggccgagg	tacttttttt
tttttttttt	tttttagtgct
ttctacttta	ttaaacatca
aagcccaaata	agatgttccc
tgtggaggag	gacttaagga
cactagggga	ggagaaagg
acacctggga	agagaatcac
accacagaga	ccaatcttca
caaaaagggt	ccaatattga
tttctaggga	ggagcagggc
atggtcagct	caaatttggt
gataacgtca	ggatgaagga
ccccaaagctt	cccgcagctt
tgacctcttg	caaagatctc
tgacatcgcc	ccggggaaga
aagcaggccc	ttctgatgct
ttgatcacat	atccccctt
gtcttcacca	ggaggcacat
cgagcaactg	cataattctg
tccagcagcc	catgaatgat
ctcaaaccce	ggattcttgt
tgtaataaac	agcactgaga
tgtctgtagt	tttttgcacc
tacatctgna	ttagaatctt
ttattacaat	gtcagagatt
tcaaacagtt	tcagtggaaa
ggggcatctt	acgatttgct
gctatggntc	tcangaggnc
angaaaaagg	gtantgcntg
cccctgaaat	tcanctgggt
taggattacc	tatgtggact
ggctttgntg	caaaaaaatn
	722
cn	

<210> 316
<211> 753
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (753)
<223> n = A,T,C or G

<400> 316	
gnnnnnttna	nagtnnnnac
gactcactat	aggggcgaac
nctctncatg	catgctcnan
cggnccnncan	ngtgatggat
atntgctgan	ttcgccctta
ccntngcntn	ggccgaggcg
cagntcccac	gtntngctcc
ncactncnnn	accgcagggg
cncngacnnc	gaccngngnn
ncnnngngag	tncncagca
ctacttggga	nggctanagg
gaagnttgga	aataaaattc
caaantttgg	agtaaaagca
atncangcgn	ngattatata
tgntnnccct	ttctgacacn
ncctagagcg	tagggggaac
atngntntat	ctgtgggana
tnaacaagat	ggagtcccaa
agactttaac	aaagntatct
cttaannatc	cncatacatn
nanaatncat	tattcatatn
tactntatgc	tgtnagttag
tatntatgct	ngtcctatct
aaacttgnga	gaanaagtgg
tntcccttga	tacattnaga
aatatggggg	ctatcttgnt
ncattgtggg	ggtggggcan
aagganaatn	aatgcangat
gaccctgttg	aangaatctt
aacatggcca	acanggggac
ngtttacagt	cgattaccag
gaaangcaag	ccttgggggt
tctactgcng	gtgggggctg
tcattgaactt	naaaatccan
agnctatacc	aggaaaaagt
gttangaccc	aattgaaang
ctntccaccc	tttcttttnn
tttgttceng	cnc
	753

<210> 317
<211> 893
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(893)
<223> n = A,T,C or G

<400> 317
gtgnntntn cnaaatggnc cntttnaatg cctnctcga gcgggccgcc agtgtgatgg 60
atntntaatt cgncccttagc gtggtcgcgg ccgnggtacn aangaaataa aantnacagt 120
ntcaaagaac caaantaagt cggacacaaa cccctgtcac cannagagtc ccatanacat 180
aannnggntg ntgtcaagna ggattnaaat taactttaac aacnttntat ataatgctac 240
attccccaat taataaagga nagttcacat atacanctaa ntgntaattg tggaaanaag 300
ggtgaaantn tgcatannta atannaaana atgctgaang cttttncata nnattnnctt 360
aaaaatncac ttncnatgca gcantangtn tacatgctta atntatcntg cnagtgattn 420
ntatgcttgt cctacatgac ntaccttgaa caactggnc tncccagatt catactgaaa 480
tatggggncg ntaantatnt tgggancggn annacntgaa tcctcaaagg atannnnntn 540
tccagntgga tgaaaccnat nattnaaang gatatnntna accatnggan cgaatgnncg 600
nngntctttt tcaatnntnc gngaagntnc cnnttnnata ncccnggggc cncattgngg 660
ggntatntn ncaatcaann ccngagntg tntntcntt cntcnaccgc ataacctttt 720
gccatagggg accttntttt aacccttttg gnttatnggg aaanaannnn nnttttaaata 780
tcnccaaaat ngggaaaaan aacccttntc actctaaaaa nttanccnta gacctanttn 840
tngngncata tttgntaaac nctatggnc ctcnagnngg gnnctgggnc nnc 893

<210> 318
<211> 744
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 318
gnnnngattg tatacgactc actatagggc gaattggggc ctctagatgc atgctcgagc 60
ggccgccagt gtgatggata tctgcagaat tcgccctttc gagcgggccgc ccgggcaggt 120
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc 180
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 240
ttctctctga agtctagggt acccattttg gggaccatt ataggcaata aacacagttc 300
ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt 360
ttcctgcaaa aggctcactc agtcccttgc ttgctcagtg gactgggctc cccagggcct 420
aggctgcctt cttttccatg tcccacccat gagccctcca ctggacagct cagtaagcct 480
ggcccttcat tctgcgtgt gttcttctc tgtgaaaatc caatacctct tacctcctct 540
gcatgcaaag attctcaagg attgtcagac ttcaaacgta acagcagaac caccagaagg 600
tcctataaat gcagtagtga ctttctcaag ctgtcanggc tttaaataagg atttgggatt 660
taatgctatg tatttttaaa ggaaagaaat aagagttgct agttttaaaa atgcatgtct 720
tttaccaatt canaatctgg cccc 744

<210> 319
<211> 720
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(720)
<223> n = A,T,C or G

<400> 319
gngtttaaac cttcttanng ctgctcgagc ggccgccagt gtgatggata tctgcagaat 60
tcgccctttc gagcgggccgc ccgggcaggt acctcattag taattgtttt gttgtttcat 120
ttttttctaa tgtctcccct ctaccagctc acctgagata acagaatgaa aatggaagga 180

```
cagccagatt tctcctttgc tctctgctca ttctctctga agtctagggt acccattttg 240
gggacccatt ataggcaata aacacagttc ccaaagcatt tggacagttt cttgttgtgt 300
tttagaatgg ttttcctttt tcttagcctt ttcttgcaaa aggtcactc agtcccttgc 360
ttgctcagtg gactgggctc cccagggcct aggtgcctt cttttccatg tcccacccat 420
gagccctcca ctggacagct cagtaagcct ggcccttcat tctgcgctgt gttcttcctc 480
tgtgaaaatc caatacctct tacctcctct gcatgcaaag attctcaagg attgtcagac 540
ttcaaacgta acagcagaac caccagaagg tcctataaat gcagtagtga ccttctcaag 600
ctgtcanggc tttaaatagg atttgggatt taatgctatg tattttttaa ggaaagaaat 660
agagttgcta gttttaaaaa tgcatgtctt ttaaccaatt cagaatctgg cccnaactt 720
```

<210> 320
<211> 694
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(694)
<223> n = A,T,C or G

```
<400> 320
atgctcgagc ggncggcant gtgatggatn tctgcagaat tcgccctttc gagcggccgc 60
ccgggcaggt actattccgg atatacaaga tcaactggag atgttgatga tggagacaca 120
gtgacagatt tcatggccca agagcgagaa agaggcntta ctattcaatc agctgctgtt 180
acatttgatt ggaaagggtta tagagtcaat ctaattgata caccagggtca tgtggacttt 240
accttggagg ttgagcgggtg cctaagagtg ttggatgggtg cantggctgt atttgatgcc 300
tctgctgggt tagaggccca gactntcaca gtatggaggc aagctgataa acacaatata 360
cctcgaatct gttttttaa caagatggac aaaactggag caagctttaa gtatgcagtt 420
gaaagcatca gagagaagtt aaaggcaaag cctttgcttt tacagttacc aattggtgaa 480
gccaaaactt tcaaaggagt ggtggatgta gtaatgaang aaaaacttct ttgggaattg 540
caattcaana tgatggaaaa gactttgaga gaaagccctt cttggaaatg aatgatcctg 600
aattgctgaa ggaaacaact gaacaaggaa tgccttaatt gaacaaagtt gcagatttgg 660
atgatgaatt tgctgacttg gttttaagaa gaat 694
```

<210> 321
<211> 781
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

```
<400> 321
gngttnaena ntgggccctc tngatgctgc tcgagcggcc gncagtgatga tggatntctg 60
cagaatncgc cctncgggag gccgnccggg cagggtactat nccggatata caagatcact 120
gggagatggt gatgatggag acncagngac agatttcatg gcccaagagc gagaaagagg 180
cnttactatn caatcagctg ctgttacatt cgattggaaa gggtatngag tcaatctaata 240
tgatncacca ngtnatgtgg actttacctt ggaggttgag cgggtgcctaa nagtgttgga 300
tggtgcanng gctgtatttg atgcctctgc tggtgtagag gccagactc tcacagtatg 360
gatgcaagct gataaacaca atatacctng aatctgtgtt ttaaacaaga tggacaaaac 420
tggagcaagc tttaaagtnt gcagttgaaa gcatcagaga gangttnaag gcanagcctt 480
tgcttttaca gtttcccaat tgggtgaaac ccaaaacttt tcaaaggag ttggttgat 540
tgtaagtaat gaaaggaaaa acttctttgg gaaantggca atttcaanat gattggaaaa 600
ngacttttgg gagaaaagcc ccttcttggg aaaatngaaa tgatncctga aatttgcngt 660
aaanngaaaa cnaacntgna atccaangga attncccttt aanttggaa aaaggnttgc 720
naanttttng attgaatnga atttgnngga cntttnggtt ttangaaaga aattaaagng 780
g 781
```

<210> 322
<211> 744

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 322

gnnntganag	tatcgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gcccgccagt	gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcaggt	120
acgcggggac	tgggtttttc	tccttttgta	gccttttcct	ttagtctcct	cttcccgggtg	180
gttggtaaaa	agaggtgaat	tgacagccta	tggtgaagac	actgtgcttt	tctcaagaag	240
gacatccaaa	cagcaagtct	acttctttct	ctttaacgat	gtgctcatta	tcaccaagaa	300
gaagagtga	gaaagttaca	acgtcaatga	ttattcctta	agagatcagc	tattgggtgga	360
atcttgtgac	aatgaagagc	ttaattcttc	tccaggggaag	aacagctcca	caatgctcta	420
ttcaagacag	agctctgcca	gtcacctctt	tactctgaca	gtccttagta	accacgcgaa	480
tgagaaaagt	gagatgctac	taggagctga	gacgcagagc	gagcgagccc	gctggataac	540
tgccctggga	cacagcagcg	ggaagccgcc	tgacagaccga	acctnactga	cccaggtgga	600
aatcgttagg	tcatttactg	ctaagcagcc	agatgaactc	ttcctgcagt	ggctgacgtc	660
gtcctcatct	atcaacgtgt	cagcgatggc	tggtatgaag	gggaacgact	tcgagatgga	720
gaaagaagnt	gggttcctat	ggaa				744

<210> 323
<211> 723
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(723)
<223> n = A,T,C or G

<400> 323

gtgtttcaan	cggtcctcta	gatgctgctc	gagcggccgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggtacgcgg	ggactggggt	tttctccttt	120
tgtagccttt	tccttttagtc	tcctcttccc	gggtgggttggt	aaaaagaggt	gaattgacag	180
cctatgttga	agacactgtg	cttttctcaa	gaaggacatc	caaacagcaa	gtctacttct	240
ttctctttaa	cgatgtgctc	attatcacca	agaagaagag	tgaagaaagt	tacaacgtca	300
atgattatc	cttaagagat	cagctattgg	tggaatcttg	tgacaatgaa	gagcttaatt	360
cttctccagg	gaagaacagc	tccacaatgc	tctattcaag	acagagctct	gccagtcacc	420
tctttactct	gacagtcctt	agtaaccacg	cgaatgagaa	agtggagatg	ctactaggag	480
ctgagacgca	gagcgagcga	gcccgcctgga	taactgccct	gggacacagc	agcgggaagc	540
cgctgcagac	cgaacctcac	tgacccaggt	ggaaatcggt	aggtcattta	ctgctaagca	600
gccagatgaa	ctcttcctgc	angtggctga	cgctgcctc	atctatcaac	gtgtcancga	660
tggtgggtatg	aaggggaaacg	actacnagat	ggagaaagaa	gctgggtttcc	tatggaatgt	720
gcc						723

<210> 324
<211> 746
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 324

gggnttgaag	ncncgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gcccgccagt	gtgatggata	tctgcagaat	tcgcccttag	cgtggctcgcg	gccgaggtac	120
cttgagatct	gagcaactgt	gttaatgaag	taatagcaat	gggccacagt	gaaagatgtg	180

ttgggggtttg	caaaacaagc	attccgtcac	ctctttaata	atgtcacaga	cttttttaaa	240
agagaggcta	tcaagttgta	atataatctg	tcatgtttta	tttaggaagg	aaggtaaatt	300
tgtgcttgca	cggggatcat	tttgtattat	ttntgcta	atccagttga	agctaaaaag	360
caactatctg	aatcctgtga	attaatttat	aagaatgtta	aacagctntg	gaaatacatg	420
catcttatga	atcatagcct	tatttagcaa	gatcaatgtt	aaagtgttga	tatatggcaa	480
gtatttaaca	cattcacagt	gntagtttga	tttcaactgt	gaattgtctt	acagtttttt	540
caaacctagt	gtntctatgg	acacctgtct	tgaattgtac	ccctcagtca	ccaccaaagc	600
attnncaccc	ctttcaaccc	ccaatcagac	cantgctttc	agtggatttg	gaggacttnt	660
atcacagctt	catnangtgg	tcttggcaca	ggcagntctga	ctngcttngg	aactgggtgct	720
tttgactcc	cttcaanngn	aatant				746

<210> 325

<211> 742

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(742)

<223> n = A,T,C or G

<400> 325

gtgtttcann	cgccctcta	gatgcatgct	cgagcggccc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccttg	agatctgagc	aactgtgtta	120
atgaagtaat	agcaatggc	cacagtga	gatgtgttg	ggtttgcaa	acatgcattc	180
cgtcacctct	ttaataatgt	cacagacttt	tttaanagag	aggctatcaa	gttgtnatat	240
aatctgtcat	gtattattta	agaaggaagg	taaatntgtg	cttgacggg	gatcattttg	300
nattattnct	gctnatccc	agctgaagct	nanaancnac	tntttgnatc	ctgtgantta	360
atncatanna	atgttanaca	gctntggaaa	tccatgcctc	ttatgaatca	tngccttatt	420
tancangatc	aatgttaaag	ntgttgatat	nnggcaagtn	tntaacacat	tnacantgct	480
agtntgattt	caactgngaa	ttgncttacc	gtnttttnaa	acctananga	atntatngac	540
acctnctctn	aatngnnncc	ctcaancacc	acnaaanctt	ttncnnccct	tncaaccccc	600
nacngaccn	cngcattcag	tngnaanng	aangactttc	atcacaactg	gncaanatnt	660
nggactttgg	cgccatgcnn	accctcttgg	nctttngaac	nnggttgcc	tttnggactt	720
tnncctgng	ngataaccac	cn				742

<210> 326

<211> 747

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(747)

<223> n = A,T,C or G

<400> 326

atgntttaag	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tgcgcccttc	gagcggccgc	ccgggcaggt	120
actgtatcat	tggcagatgt	gacgtcaccg	acaaccagag	tgaagtggcg	gacaaaactg	180
aggattacct	gtggctgaag	ttgaaccaag	tgtgttttga	cgacgatggc	accagctccc	240
cacaagacag	gctcactctc	tcacagttcc	agaagcagtt	gttgggaagac	tatggcgagt	300
cccactttac	ggtgaaccag	caacccttcc	tctacttcca	agtcctgttc	ctgacagcgc	360
agtttgaagc	agcagttgcc	tttcttttcc	gcatggagcg	gctgcgctgc	catgctgtcc	420
atgtagcact	ggtgctgttt	gagctgaagc	tgcttttaaa	gtcctctgga	cagagtgttc	480
aactcctcag	ccacgaacct	ggtgacctt	cttgcttgcg	gaggctgaac	ttcgtgcggc	540
tcctcatgct	gtacctcggc	cgngaccacg	ctaaggcgga	attccagcac	actggcggnc	600
gttactagt	gatccgagct	cggtaccaaa	cttggcgtaa	tcatggncat	agctggttcc	660
tgtgtgaaat	ggtatccgtt	acaatttcac	acaacatacg	agccgggaag	catnaagtgt	720
naaacctggg	gtgcctnatg	agtgaacn				747

<210> 327

<211> 724
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 327
gtnatgaaac cnttctntng ngcatgctcg agcggccgcc agtgtgatgg atatctgcag 60
aattcgccct ttcgagcggc cgcccgggca ggtactgtat cattggcaga tgtgacgtca 120
ccgacaacca gagtgaagtg gcggacaaaa ctgaggatta cctgtggctg aagttgaacc 180
aagtgtgttt tgacgacgat ggcaccagct cccacacaaga caggctcact ctctcacagt 240
tccagaagca gttgttgga gactatggcg agtcccactt tacggtgaac cagcaaccct 300
tcctctactt ccaagtccctg ttccctgacag cgcagtttga agcagcagtt gcctttcttt 360
tccgcatgga gcggctgcgc tgccatgctg tccatgtagc actggtgctg tttgagctga 420
ajctgctttt aaagtccctt ggacagagtg ctcagctcct cagccacgag cctggtgacc 480
ctccttgctt gcggcggctg aacttcgtgc ggctcctcat gctgtacctc ggccgcgacc 540
acgctaaggg cgaattccag cacactggcg gccgttacta gtggatccga gctcgggtacc 600
aagcttggcg taatcatggt catagctgtt tcctgtgtga aattgtatcc gctcacaatt 660
ncacacaaca tacgagccgg aagcataaag tgtaaaacct ggggtgccta atgagtgaac 720
taan 724

<210> 328
<211> 747
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 328
tgnntgtag atacgactca ctatagggcg aattgggccc tctagatgca tgctcgagcg 60
gcccggcagt gtgatggata tctgcagaat tcgcccttag cgtggtcgcg gccgaggtag 120
tttttttttt ttttttaaag acagagtctt gctctgtcac ccaggctgga gtgcagtggc 180
acgatctcgg ctactgcaa gctctgcctc ccgggttcac gccattctcc tgcctcagcc 240
tcccagatag ctgggactac aggtgcccg cccatgccc ggctgatttc tttttgtatt 300
tttagtagag acggagtttc accgtgtag ccaggatggg ctcgatctcc tgacctcgtg 360
atccgcccgc cttggcctcc aaagtgtctg gattacaggt gtgagctacc gcgcccggcc 420
tattatcttg tactttctaa ctgagccctc tattttcttt attttaataa tatttctccc 480
cacttgagaa tcacttgta gttcttggtg ggaattcagt tgggcaatga taacttttat 540
gggcaaaaac attctattat agtgaacaaa tgaaaataac agcgtatttt caatatattc 600
ttattcctta aattccactc ttttaacact atgcttaacc acttaatgtg atgaaatatt 660
cctaaaagtt aaatgactat taaagcatat attggtgcat gnatatatta aagtacccga 720
tactctaaat aaaaatccac tggtccn 747

<210> 329
<211> 725
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 329
gcgtttcaan tgggccctct ngngcatgct cgagcggccg ccagtgtgat ggatatctgc 60
agaattcgcc cttagcgtgg tcgcggccga ggtacttttt tttttttttt taaagacaga 120


```

gtcttgctct gtcacccagg ctggagtga gtggcacgat ctcggctcac tgcaagctct 180
gcctcccggg ttcacgccat tctcctgcct cagcctcccg agtagctggg actacaggtg 240
cccgccacca tgcccggctg atttcttttt gtatttttag tagagacgga gtttcaccgt 300
gttagccagg atggtctcga tctcctgacc tcgtgatccg cccgccttgg cctccaaagt 360
gctgggatta caggtgtgag ctaccgcgcc cggcctatta tcttgtactt tctaactgag 420
ccctctatct tctttatctt aataatattt ctccccactt gagaatcact tgtagttct 480
tggtaggaa tcagttgggc aatgataact tttatgggca aaaacattct attatagtga 540
acaaatgaaa ataacagcgt attttcaata ttttcttatt ccttaaattc cactctttta 600
acactatgct taaccactta atgtgatgaa atattcctaa aagttaaatg actattaaag 660
catatattgg tgcattgata tattaagtag cccgatctct naataaaaat ccactgggtac 720
agata 725

```

<210> 330
 <211> 741
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (741)
 <223> n = A,T,C or G

```

<400> 330
gnnntganag atacgactca ctatagggcg aattgggccc tctagatgca tgctcgagcg 60
gcccggcagt gtgatggata tctgcagaat tcgcccttag cgtggctcgc gccgaggtac 120
tttttttttt tttttttttt tttttttttt ggaagttaa tttactcaca gttcaacatg 180
gctggggagg cctcaggaaa tttacaatta taacagaagg caaaggggaa gccagatacc 240
ttcttcacaa ggtggcagga aggagaagag ccgagagaag gcggaagaat cccttataaa 300
accatcagat ctcgtgagaa ctacttgct atcaggagaa cagcatgggg gaaccgcccc 360
caggattcaa tgacctncac ctggtctctc ccttgacacg tgaggattat ggggattaca 420
attccagatg agatttgggt ggggacacaa agccaaacca tatcaactgt gactaccttg 480
ggtaagggcc atccaggcag aggcaggggg aacattcttg gcaaaggcct tggggcaggg 540
gcctggtatg ttcagatagc ancaagtagg ccagantggc cggaggggag taagtgtggg 600
gaggccagtg ganagatgag ggtaggggag ggatggatca gatcatgcag ggccccgggg 660
gccacaggaa ngacctnagc atttactgca agtaangtgg gaaccatcga atgtctaagc 720
naggaggaat ccctgtgact c 741

```

<210> 331
 <211> 727
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (727)
 <223> n = A,T,C or G

```

<400> 331
gtnnnnncgan ngggccctct agatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggccg aggtactttt tttttttttt tttttttttt 120
tttttttgaa gtttaattta ctacagttc aacatggctg gggaggcctc aggaaattta 180
caattataac agaaggcaaa ggggaagcca gataccttct tcacaagggt gcaggaagga 240
gaagagccga gagaaggcgg aagaatccct tataaaacca tcagatctcg tgagaactca 300
cttgcctatc ggagaacagc atgggggaac cgccccagg attcaatgac ctccacctgg 360
tctctccctt gacacgtgag gattatgggg attacaattc cagatgagat ttgggtgggg 420
acacaaagcc aaaccatata aactgtgact accttgggta agggccatcc aggcagaggg 480
aggggggaaca ttctgggcaa aggccttggg gcaggggcct ggtatgttca gatagcagca 540
agtaggccag antggccgga ggggagtaag tgtggggagg ccagtggaaa aatganggta 600
gggaaaggga tggatcagat catgcagggc cccggggggc acangaagga cctnacattt 660
actgcaagta angtgggagc catcgaatgt tctaagcana ngangaatcc ctgngactca 720
ngtgtn 727

```

<210> 332
<211> 734
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 332
gnntganagt atacgactca ctatagggcg aattggggccc tctagatgca tgctcgagcg 60
gcccgccagt gtgatggata tctgcagaat tcgccctttc gaggcgccgc ccgggcaggt 120
acccttctcg cttttgccat tagccaagga tagaagctgc agtgggatta attttgatat 180
aatctttcaa accagcttca tgtggcttcc cttttctttg ttcaagatga gggccaggag 240
gggaaacatc acacctgccc taaacctgt tcctggaggt cagcatttga tctgttgcaa 300
gcccctcttt ctgtcccctc ttctaccct gcctcccatg actttgctcc tcacactttt 360
ggaaccatgc c'tccggggg ggcccatctc ttctggccgt ccttgtctct gggccacttg 420
gagtgtgtga taaatcagtc aagctgttga agtctcagga gtctctggta gcctgcagaa 480
gtaagcctca tcatcagagc ctttccctcaa aactggagtc ccaaattgtca tcaggttttg 540
nttttttttc aaccactaag aaccctctg cttttaactc tagaatttgg gcttggacca 600
gatctaacat cttgaatact ctgccctcta gaccttcacc ttaatggaan gtggatccca 660
nganggtgta atggacatca agccactcgc ggcagcatgg agctatacta agcatcctta 720
nggtctgcct ctcn 734

<210> 333
<211> 710
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 333
ntgggcccctc tngngetgct cgagcgggccg ccagtgtgat ggatatctgc agaattcgcc 60
ctttcgagcg gccgcccggg caggtaccct tctcgctttt gccattagcc aaggatagaa 120
gctgcagtgg tattaatttt gatataatct ttcaaaccag cttcatgtgg cttccctttt 180
ctttgttcaa gatgagggcc aggaggggaa acatcacacc tgccctaaac cctgttcctg 240
gaggtcagca tttgatctgt tgcaagcccc tctttctgtc cctcttctct accctgcctc 300
ccatgacttt gctcttcaca cttttggaac catgccttcc gggggggccc atctcttctg 360
gccgtccttg tctctgggccc acttggagtg tgtgataaat cagtcaagct gttgaagtct 420
caggagtctc tggtagcctg cagaagtaag cctcatcatc agagccttct ctcaaaactg 480
gagtcceaaa tgtcatcagg ttttgttttt ttttcagcca ctaagaacct ctctgctttt 540
aactctagaa tttgggcttg gaccagatct aacatcttga atactctgcc ctctagagcc 600
ttcagcctta atggaagggt ggatccaang anggtgtaat ggaacatcaa gccactcgcg 660
gcagcatgga gctatactaa gcacccctta nggtctgcct cttcagcatt 710

<210> 334
<211> 2051
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(2051)
<223> n = A,T,C or G

<400> 334
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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 99/13181

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12N15/12 C07K14/47 C12Q1/68 G01N33/68 C07K16/18
A61K31/70

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HILLIER, L. ET AL.: "WashU-NCI human EST project: zu71f08.s1 Soares testis NHT Homo sapiens cDNA clone 743463" EMBL DATABASE ENTRY AA609384, 1 October 1997 (1997-10-01), XP002128750 the whole document	1,2,7-9
A	HILLIER, L. ET AL.: "WashU-NCI human EST project 1997: zv83c03.s1 Soares total fetus Nb2HF8 9w Homo sapiens cDNA clone 760228" EMBL DATABASE ENTRY HS1226101; ACCESSION NUMBER AA425141 (VERSION 2), 28 October 1997 (1997-10-28), XP002128751 the whole document	1,2,7-9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *Z* document member of the same patent family

Date of the actual completion of the international search

26 January 2000

Date of mailing of the international search report

02.05.2000

Name and mailing address of the ISA

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Authorized officer

ANDRES S.M.

INTERNATIONAL SEARCH REPORT

Internal Application No

PCT/US 99/13181

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HILLIER, L. ET AL.: "WashU-NCI human EST project: za83e08.r1 Soares fetal lung NbHL19W Homo sapiens cDNA clone 299174" EMBL DATABASE ENTRY HS287326; ACCESSION NUMBER W05287,8 May 1996 (1996-05-08), XP002128752 the whole document	1,2,7-9
A	--- WO 98 04689 A (UROCOR INC) 5 February 1998 (1998-02-05) page 4, line 8 -page 5 page 13 -page 52 page 66 -page 85 page 112 -page 122	1-11
A	--- HELLER ET AL: "DISCOVERY AND ANALYSIS OF INFLAMMATORY DISEASE-RELATED GENES USING cDNA MICROARRAYS" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 94, March 1997 (1997-03), pages 2150-2155, XP002100125 ISSN: 0027-8424 -----	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/ 13181

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-11 (all partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box 3.

Although claims 8 to 11 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Further defect(s) under Article 17(2)(a):

Continuation of Box 3.

Claims Nos.: 3 and 6

Present claims 3 and 6 relate to a nucleic acid sequences defined only by the (arbitrary) name of the clone they originate from. The use of these names in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to relate the clone names as given in claims 3 and 6 with the to be searched polynucleotide defined by SEQ ID 1. Consequently, no search has been carried out for claims 3 and 6 in the context of the first subject as mentioned on the communication pursuant to Art. 17(3)(a) PCT.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1-11 (all partially)

A method for diagnosing or treating a prostate disorder by providing a probe, antisense, ribozyme capable of hybridizing to SEQ ID 1 or its complement, or an antibody capable of binding to a polypeptide encoded by SEQ ID 1.

Inventions 2 to 339: Claims 1,2,4,5,7-11 (all partially) and 3,6, 12-15 (all partially and as far as applicable)

As for subject 1. but respectively relating to SEQ IDs 2 to 339 (i.e. subject 2. corresponding to SEQ ID 2, subject 3. corresponding to SEQ ID 3, ..., subject 339. corresponding to SEQ ID 339) and when applicable including the polynucleotide, vectors, cells and a composition containing the corresponding polypeptide.

Information on patent family members

PCT/US 99/13181

Form PCT/ISA/210 (patent family annex) (July 1992)

